BUSINESS WESK



START OF WAR 1939

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PUBLISHED BY THE MCGRAW-HILL PUBLISHING CO



Congressional Medal of—HONOR?

Tonight mothers are holding the horrible telegrams saying their sons have died for their country, in ghastly pain, in far-off, lonely places.

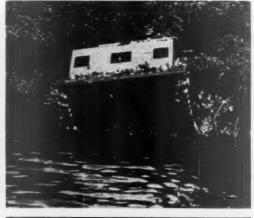
Tonight the newspapers tell of strife and strikes, of political "deals", of ranting demagogues and false leaders, of crowded night clubs, black markets, greed.

It is easy to ask ten million American boys to show the ultimate in physical courage. The best that those of us left at home can do is to show *moral* courage — the courage to forget all private gain and selfish power for the victory of America.

typi











million pounds of rubber products every day—and 7 "E" awards

typical example of B. F. Goodrich improvement in rubber

THE picture in the lower corner re little rings of synthetic rubber in inspected under a powerful glass. It is rings like these are large and are so small you could hardly the point of a pencil through them, rall thousand weighing only a few ads. Yet all are necessary hydraulic in war planes.

from these up to rubber pontons so they can support bridges, there are than a thousand distinct types rubber war products — and for ad in producing them plus other amplishments, men and women at m B. F. Goodrich plants have aved the Army-Navy "E" award. The output of these plants has averaged far beyond a million pounds a day of finished rubber war products, plus big tonnages of war goods not even made of rubber.

Some of the products made in these plants are original B. F. Goodrich developments—such as rubber springs for the "centipedes that swim," tanks that can travel on land or water (photo, upper right); "square tires," the endless band tracks for the army's half-track vehicles (upper left); airplane De-Icers (lower right); also V-belts for powder and chemical plants, made of rubber that can conduct electricity, thus preventing sparks

that might blow up the whole place; rubber bearings for ships; Koroseal insulation for battleship cable — and other things we don't even have space enough to mention. In some cases the "developments" are improvements in familiar products or faster manufacturing methods.

The Army-Navy "E" is awarded for excellence in the production of war materials. It has been awarded at B. F. Goodrich plants in California, Kentucky, Massachusetts, New York, Ohio, Tennessee and Texas. The B. F. Goodrich Company, Akron, O.

B.F. Goodrich

RUBBER and SYNTHETIC products



There's no place like home...



Americans are learning a lot of almost-forgotten facts about Home these days. We're learning that home is a mighty fine place . . . in fact, there's no place like it.

Travelling long distances just for a trip simply isn't being done, and naturally, all of us know that we can't waste gasoline. That doesn't mean we can't relax from our War Work. Vacations are essential to production. Short weekend trips, however, place a terrific burden on transportation facilities, and many of us are learning that home is a great place to relax. We're learning that the neighbors are swell folks. A new community spirit is growing.

Here at BESF, that community spirit unites us in a single great task. We're working together to turn out more ball and roller bearings for the wheels of Victory. We look on our job as a share in protecting American homes.



BUSINESS WFF

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New Products	
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Harris & Ewing; 52, 76—Acme; 78— Harris & Ewing; 88—Acme; 98—Wide Wo

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VEE WASHINGTON BULLETIN THAT THE WASHINGTON NEWS MEANS TO MANAGEMENT

Tax Boost Unlikely

President Roosevelt's demand for a ruly stiff" program of deflationary es doesn't stand a chance. The contion is growing that the danger of naway inflation is licked, for the time ing at least.

In that happy belief-and with the proaching elections in the back of head-Congress isn't going to do y fancy carving job on 40,000,000 ellious taxpayers.

In spite of staggering wartime boosts, es so far have contributed almost thing to the fight against inflation.

apply Holds Its Own

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About standard Strategy

Post Ofi March Printed

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18.

On paper the excess of individual rchasing power over available goods eady is enough to blow the lid off. he main reason it hasn't is simply that e supply of staple goods has been big ough at most times and in most places keep people pacified and forestall any neral buyers' panic.

This year's promise of a bumper food d fiber crop wipes out the worst threat a shortage in basic necessities. For e Administration as well as for Con-ess, this is pure good luck.

orns of the Tax Dilemma

Since the start of the war, it has been vious that taxes couldn't be boosted st enough to mop up extra purchaspower. The greatest part of the ine lower brackets where taxes are light-

Low income earners won't stand for tax that grabs back everything they ve gained. And the old game of piling e extra load on upper and middle ackets just about reached its limit in e last revenue bill.

This was what Rep. Robert L. Doughn, chairman of the Ways & Means ommittee, and Sen. Walter F. George, airman of the Finance Committee, in mind when they said that 5,000,000,000 or \$6,000,000,000 more buld be all the new tax bill could rape up. President Roosevelt has been manding at least twice that but he is o shrewd a judge of the country's mper to think even he could get away ith it in an election year.

ofexico, a es \$5.00 Aore Bickering Ahead

Regardless of the way it's talking, Printed to Administration doesn't hope to get to the sything like \$12,000,000,000 in new taxes. Some officials are even wondering if they should ask for new levies at all. An extra \$5,000,000,000 or so would rile taxpayers and would be only a drop in the bucket as far as inflation goes.

Roosevelt, however, wants Congress to take the responsibility for refusing to lay on the additional tax burden. Responsibility is just what Congress also wants to dodge, and so the odds are that the next tax bill will bring the same bickering, stalling, and general confusion as the last one.

Rep. Doughton has been wrong before (he predicted that the Ruml plan would stay dead when it failed to pass the House the first time), but he spoke as a prophet this week: "I can't see anything ahead but trouble and a battle

all the way.'

New Argentine Deal

Cancellation of all but a few highpriority export licenses to Argentina is aimed at stopping leakages to Axis-linked firms. Rescreening will validate some of the canceled licenses later. The move is in no way related to the recent Argentine "take-over" of American and British auto and tire factories. The license cutback was in the wind a month ago (BW-Jun.26'43,p8).

At the same time, the State Dept. is not at all enthusiastic about Argentina's new military government or its war attitude and may be expected to deal her out of any trade breaks arising from improvement in the ship situation. Britain, although less inclined to jeopardize her already war-weakened position in

It's a War Job or Fight

Effects of the fathers' draft-now set for Oct. 1-will be out of all proportion to the number who actually wind up in uniform. Barring a military disaster, comparatively few fathers will be inducted, but the open season on Class 3-A gives the War Manpower Commission a new hold on all 6,559,000 registrants.

Until now, pre-Pearl Harbor fathers could thumb their noses at WMC's list of essential occupations unless they were in one of the handful specifically designated as nondeferable. Start of reclassification means they have to get into essential work

and stay there.

 WMC's Option—The arithmetic of the draft brought the fathers' call at a time when manpower authorities found it particularly convenient. Selective Service probably could have squeaked through to the end of the year by authorizing a wholesale shakeup of occupational deferments. Instead, with war production lagging and labor supply getting tighter by the week, WMC decided to dig into

As things look now, about 300,000 fathers-5% of the total-can expect induction during the last three months of this year. The armed forces need 625,000 men to meet their quotas through December. They will get about 150,000 from youngsters just turned 18 and another 175,000 from reclassified 4-F's and expiring occupational deferments. Rejections and deferments in the fathers' class will run around 50%, which means that something like 600,000 3-A's will have to be reclassified by the end of the year.

• About 200,000 Fathers-In the first six months of 1944, the services will want about 500,000 men, not counting replacements. (The Army originally planned to hit full strength by January, but it is running behind its timetable while the Navy is getting ahead.) About 300,000 of these will be 18-year olds. Most of the other 200,000 inductees will probably be

Actual rate of induction will depend on three factors:

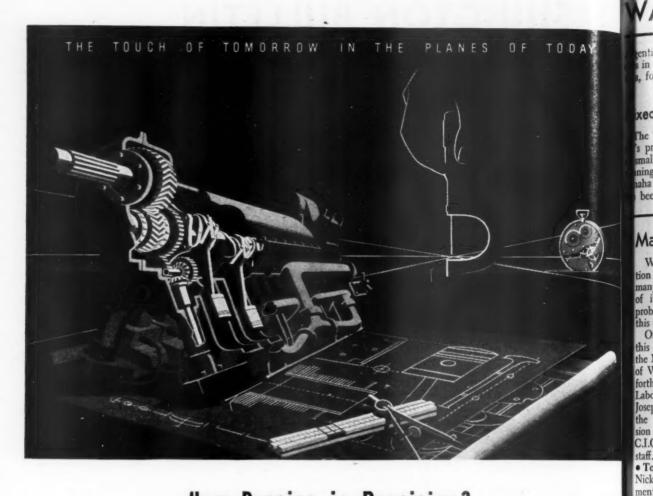
(1) Casualties and discharges and the

Army's policy on replacement.
(2) Local board policy on occupational deferments. Incidentally, fathers will find it easy to get deferments if they can make any sort of case for themselves. (3) Rate of enlistments in the wom-

en's services.

WMC can count on a howl as soon as Congress gets back next month. There isn't much chance that congressmen will overrule the order, but they may very well vote some qualifications on it.

Possible Change-A hastily passed law putting the fathers' draft on a nation-wide rather than local basis is better than a possibility. This would forbid local boards to call up fathers when childless men were available in other states.



How Precise is Precision?

Maybe your yardstick is a fine watch. Ours is a Ranger 12-cylinder in-line, air-cooled engine. See the comparisons between the two listed below.

A whole battery of fine laboratory instruments, plus the genius of craftsmanship, are responsible for the Ranger's outstanding precision performance.

There's the spectroscope, for example—so sensitive

it can spot a particle of metal as minute as seven parts in a hundred thousand. Fairchild uses it to explore and to control the metals in Ranger engines.

A quarter million volt X-Ray is another Fairchild key to secrets that are hidden beneath 4 inches of solid steel. It tells our engineers which metals can "take it." Under a metallurgical microscope our technicians can read the history of any metal . . . tell how it was processed during manufacture.

With electrical instruments they can detect a flav one ten-thousandth of an inch in depth that could become a bottomless pit of danger.

A beam of black light is played over machined sur-

faces to expose the structural "criminals" that may lurk within.

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These and hundreds of other present-day miracles are routine matters for Ranger engineers and scientists. Result—the Ranger Engine...combination of precision and power...another Fairchild "touch of tomorrow in the planes of today."

A QUALITY WATCH

PARTS-about 350.

PRECISION measurements—wheel pivot held to a tolerance of 1/2 of 1 per cent of its diameter.

SPEED of moving parts—balance wheel oscillates 5 times per second.

A RANGER ENGINE

PARTS-exactly 4,127.

PRECISION measurements—impeller shaft held to a tolerance of 1/10 of 1 per cent of its diameter.

SPEED of moving parts—fastest part revolves 520 times per second.

BUY U.S. WAR BONDS AND STAMPS



ENGINE AND AIRPLANE CORPORATION
30 ROCKEFELLER PLAZA, NEW YORK

Fairchild Aircraft Division, Hagerstown, Md.... Burlington, N. C

Duramold Division, New York, N.Y.

Ranger Aircraft Engines Division, Formingdale, L. I.

Business Week • August 7, 194

VASHINGTON BULLETIN (Continued)

entina, is cooperating-threatening in South African trade with Argenfor instance.

xed Meat

The Senate Small Business Commits probe into chain store purchases small meat packing plants is rapidly ning into deep water. That's why the aha hearing, scheduled for Aug. 15, been postponed.

For one thing, independent retailers aren't waiting for the committee to defend their interests; they're buying plants themselves. In Cincinnati this week a retail meat dealers' co-op closed a deal for a plant somewhat smaller than the one it originally dickered for (BW -Jul.31'43,p100).

Meanwhile, small packers are reversing the procedure. They are going into the retail business, either buying stores outright or forming partnerships with groups of retailers. The big packers are kept out of retailing by the old packers' consent decree, but there are no such restrictions on the small fellows.

Trade talk is that chain store purchase of packing plants is aimed as much at postwar expansion as at insur-

ing a meat supply for the duration.
In some cases Dept. of Agriculture regulations have hamstrung chains and independents on getting any meat out of their own plants. New owners are technically required to supply the old management's customers, follow the same service practices.

Management Man for a Management Job

Worried over lagging war produc-tion and pretty well convinced that manpower troubles are the main root of it, WPB hacked away at the problem from every possible angle

Of special interest to business in this conviction was the elevation of the Management Consultant Branch of WPB to division status. Henceforth, it will be on a par with the Labor Production Division under Joseph D. Keenan (of A.F.L.) and the Manpower Requirements Division under Clinton S. Golden (of C.I.O.). It will shortly have a regional

• To Work on Incentives-John W. Nickerson, who headed the Management Consultant Branch, stays on as the division's director. A practical Yankee manufacturer (Cheney Bros. silk mills), Nickerson came to WPB early in 1942 to organize a panel of management consultants for Sidney Hillman, the labor leader who was then a top man in the war organi-

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Nickerson is no lover of organized labor, but he has worked well with Keenan and Golden, WPB's two labor vice-chairmen. Probably the most important part of his job will be cooperating with Keenan's office on incentive wage plans. WPB still sees these as one promising solution to manpower troubles, is giving

them a big play.

When Keenan's office sends a man out to clear up a labor trouble spot, one of Nickerson's staff will go along to work on management. This harks back to the old days of the National Defense Advisory Commission's Labor Conciliation Service on which Edwin D. Bransome, Vanadium Corp. president, represented management (BW-Dec.21'40,p22).

• Worried about Quits—Quit-rate statistics have furnished one diag-



Trouble-Shooter

nosis of manpower ills-new workers. Over half of the recent quits have involved workers with less than four months' experience. Some of them quit for the higher pay their newly acquired training could command elsewhere. But many, mostly women, got out because they weren't tough enough for an assembly line job or because they had found they couldn't leave family responsibilities after all. The result, in many places, has been a net loss of workers.

Most troublesome industries in this respect have been aircraft, shipbuilding, and aluminum. Aircraft manufacturers are turning to such solutions as actually taking subassembly to the workers (where transportation is the problem) or accepting workers for short shifts and two or three days a week (where housekeeping keeps women off the job).

Present thinking in WPB is that problems like these will have to be ironed out on an area-by-area, plantby-plant basis. That's where Nicker-

son's job comes in.

Farm-Food "Cooperation"

Although not too sure that Congress will approve, the War Food Administration will, nevertheless, propose a 1944 crop control program involving govern-ment contracts with growers. The idea is that the government will sign individual farmers for so-and-so many acres of wheat, cotton, soybeans, etc., much as contracts are now signed for copper or magnesium.

Farmers who fall in line would be promised (1) adequate machinery, fertilizer, labor, and gasoline, and (2) adequate prices, including special incentives for switching, say, from cotton to soybeans.

For a Tighter Grip

Whether or not the program materializes, it is indicative of how far WFA and OPA are willing and prepared to go to hold down food prices at the consumer level while simultaneously keeping up income at the farm level (page 16). The trick is, of course, to get as much government control over foods as possible. Currently, the best the government can do is engage in buy-sell operations.

Production control would insure a still firmer grip on the market, but precisely for that reason Congress will be consulted.

Too Much Inspection

The hullabaloo that the Truman Committee and the Dept. of Justice have been making about faulty materials and lax inspection is an important cause of lagging war production.

Manufacturers report that govern-ment inspectors, afraid for their own necks, are tightening up inspection to a degree that is seriously jamming the works. One airplane engine plant shows a shocking falling off in output which it attributes to inspectors' jitters.

Numerous manufacturers say produc-



No star on his shoulder, no. But today's Safety Director is charged with the safety of innumerable workers...thousands of them doing hazardous jobs . . . many of them virtually irreplaceable. The Safety Director does bear a heavy responsibility. His importance is unquestioned.

Working with him is Willson, engineer and manufacturer of more than 300 styles in eye protective and respiratory

For many of the Safety Director's most critical problems, Willson has the answers . . . and these are constantly being relayed through Willson distributors in 51 cities.



The Safety Effort is a vital part of the War Effort.

BOGGLES . RESPIRATORS . GAS MASKS . HELMETS

INCORPORATED

WASHINGTON BULLETIN (Continued)

tion in their plants never again will reach its former levels if inspectors continue to insist upon the degree of per-fection they have been demanding recently.

Sturges to Sicily

As a result of the Jones-Wallace feud (BW-Jul.24'43,p5), the State Dept. is now definitely top dog in the foreign economic field, and the first cue to what that means is found in the selection of Dr. Wesley Sturges, former field man of the Board of Economic Warfare, to head economic aid in Sicily as an employee of State's Office of Foreign Economic Coordination.

For several months, Sturges headed the development and procurement section of the North Africa Economic Board, a BEW baby.

In Sicily, in striped trousers, Sturges will do the same job and oversee the general operation of the civilian economy.

Dr. Sturges last appeared in the public eye as director of the Distilled Spirits Institute—a fact not now generally listed in his press notices-but he quit the job (BW-Jul.20'40,p46) when the distillers failed to go along with his reform campaign.

"Currency" Instead of Stamps?

"Ration currency"-glass or fiber tokens to take the place of small denomination ration stamps-is by no means a dead duck. OPA's interest has been revived and the idea is getting "very serious consideration." Even if ration currency were approved within the next few weeks, however, it would be four to five months before tokens reached sales counters.

Stamps would still be issued in a single denomination (probably 16 points); all tokens, which shoppers would get in change for stamps, would have one point value. Stamps would have expiration dates, as at present, but tokens would not.

The argument for tokens is based purely on mechanical convenience. Nobody can figure out whether the fact that tokens would be valid anytime would result in the purchase of more rationed food or less.

Capital Gains (and Losses)

Because of the critical manpower situation in the Northwest, plans have been dropped for installation of No. 7 generator at Grand Coulee to produce



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DEPUTY IN DEMAND

James F. Brownlee, War Food A ministration's transportation head an president of Frankfort Distillene has been tapped by Prentiss Brow as his new deputy price administrate to replace Don Wallace who lad the business background demand by Congress. Brownlee joined Ga eral Foods around 1928, became vio president before he left in 1935 join Frankfort and gain the reputation of being the distilling industry's high est paid executive. His government connections go back to WPB's ear days when he became assistant dire tor of its Materials Division-serving until illness forced him out. The spring Chester Davis placed him the War Food Administration; no Brown wants his services in OPA.

an additional 108,000 kw. for delive early in 1945 (BW-Jul.24'43,p17). Office of Defense Transportation

loosened up restrictions on deliveries the eastern gas shortage area. Hen forth, stores may deliver all gift p chases and mail and phone orders, gardless of size, ostensibly so war w ers won't have to take time off to sho

A concern which advertises that y can grow a year-round Victory gard without soil has affronted the credul of the Federal Trade Commission.

> Business Week Washington Bure

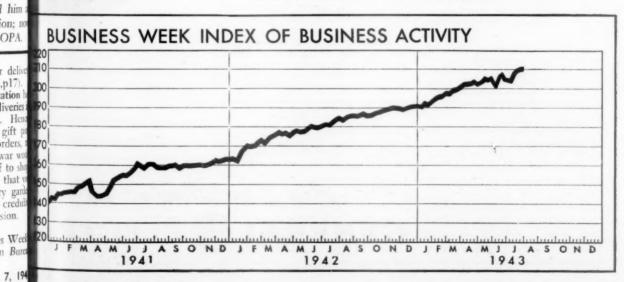
GURES OF THE WEEK

	\$ Latest Week	Preceding Week	Month Ago	6 Months Ago	Year
INDEX (see chart below)	*211.4	211.2	205.2	194.3	185.8
UCTION					
Ingot Operations (% of capacity)	98.3	98.0	96.6	98.3	95.8
netion of Automobiles and Trucks.	19,900	20,130	18,645	18,620	18,260
meeting Const. Awards (Eng. News-Rec. 4-week daily av. in thousands)	\$10,068	\$10,267	\$8,701	\$10,196	\$31,086
ric Power Output (million kilowatt-hours)	4,227	4,196	4,111	3,977	3,649
de Oil (daily average, 1,000 bbls.)	4,133	4,119	4,008	3,826	3,383
minous Coal (daily average, 1,000 tons)	2,017	+1,967	768	1,867	1,843
ellaneous and L.C.L. Carloadings (daily average, 1,000 cars)	81	79	81	70	90
Other Carloadings (daily average, 1,000 cars)	67	67	45	47	63
ey in Circulation (Wednesday series, millions)	\$17,799	\$17,706	\$17,420	\$15,438	\$12,647
artment Store Sales (change from same week of preceding year)	+19%	+20%	+19%	+1%	+5%
	48	50	66	138	168
(Average for the week)					
Commodity Index (Moody's, Dec. 31, 1931 = 100)	244.1	244.1	245.2	244.8	230.2
strial Raw Materials (U. S. Bureau of Labor Statistics, Aug., 1939 = 100).	160.7	160.5	160.0	157.4	154.0
estic Farm Products (U. S. Bureau of Labor Statistics, Aug., 1939 = 100).	209.9 \$56.73	209.5	210.3	201.8	180.7
hed Steel Composite (Steel, ton).	\$19.17	\$56.73 \$19.17	\$56.73 \$19.17	\$56.73 \$19.17	\$56.73 \$19.13
per (electrolytic, Connecticut Valley, lb.).	12.000e	12.000e	12.000e	12.000e	12.000
eat (No. 2, hard winter, Kansas City, bu.)	\$1.39	\$1.40	\$1.40	\$1.37	\$1.11
r (raw, delivered New York, lb.)	3.74€	3.74e	3.74e	3.74e	3.74
on (middling, ten designated markets, lb.)	20.60€	20.68€	21.07€	20.56€	18.68
ol Tops (New York, lb.)	\$1.370	\$1.370	\$1.370	\$1.230	\$1.243
ber (ribbed smoked sheets, New York, lb.)	22.50€	22.50e	22.50¢	22.50¢	22.50
NCE					
Stocks, Price Index (Standard & Poor's Corp.)	93.4	97.4	98.2	83.0	67.8
lium Grade Corporate Bond Yield (30 Baa issues, Moody's)	3.81%	3.80%	3.85%	4.10%	4.29%
Grade Corporate Bond Yield (30 Aaa issues, Moody's)	2.69%	2.69%	2.71%	2.77%	2.82%
Bond Yield (average of all taxable issues due or callable after twelve years) Loans Renewal Rate, N. Y. Stock Exchange (daily average)	2.28% 1.00%	2.28% 1.00%	2.27% 1.00%	2.32% 1.00%	2.34%
e Commercial Paper, 4-to-6 months, N. Y. City (prevailing rate)	1-1%	1-1%	1.00%	1.00%	1.00%
	8-470	10	8-470	8-470	8-4 /0
ING (Millions of dollars)	22.020	22 200	22 200	20.055	04.45
and Deposits Adjusted, reporting member banks	33,839	33,386	32,289	30.052	26,670
d Loans and Investments, reporting member banks	46,482 5,628	46,612 5,618	45,843 5,542	41,591 6,149	33,512 6,735
rities Loans, reporting member banks.	1,371	1,342	1.348	926	976
Gov't and Gov't Guaranteed Obligations Held, reporting member banks.	34,072	34,207	33,295	28,567	19.387
r Securities Held, reporting member banks	2,931	2,956	3,063	3,286	3,429
ss Reserves, all member banks (Wednesday series)	1,020	1,190	1,210	2,094	2,196
Federal Reserve Credit Outstanding (Wednesday series)	8,418	8,033	7,576	5,992	3,237
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§ Date for "Latest Week" on each series on request.



ess Week • August 7, 1943



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HE OUTLOOK

ow in Stabilizing Phase

War programs are shaking down as they get close to their lings, and basic economic trends are pretty well set. But critical will continue to keep management on its toes.

siness news these days chiefly condetails; for the most part, basic is have been established. At this the war economy may be said to "arrived," in that an over-all tendtowards stabilization can be noted very hand. The fundamental enment in which business must opis gradually becoming fixed, awaithe critical change in the war that et new forces in motion.

r Manpower Limits

for manpower—resource No. 1 lear that the pace of mobilization owed. Both the total labor force he armed forces are approaching foreseen limits; the decline in ownent is beginning to level off. hanpower curves won't flatten into

ht lines for another year.

iefly because of manpower, the
deceleration can be observed in
ction, as regards both the rise in
ate output and in munitions, and
pering in civilian goods. An addireason is that materials supplies
capacity, and the bulk of excess
ories, both at the distributive and
manufacturing levels, has been
out drained away.

s implies that, in turn, the defor transport, fuel, power, and t facilities closely related to pron is approaching top levels, and the physical volume of retail dision will reflect the slowing decline ilian output and stockpiles.

the price, wage, and profit fronts re economic trends depend on poly sensitive controls—less certainty is. Nonetheless, the emergence, shall the recent struggles, of an immer administrative hand parallels radual stabilization on the physmanpower-production side.

Management Layoff

retrospective comparison, the peof war mobilization was marked by skelter change. As change gives to relative constancy, immediate gement problems are eased.

this is far from saying that the tions of everyday business have no so mechanical as to permit the executive forty winks at the office For, while the over-all economic nument may have begun to settle,

specific businesses still must contend with atmospheric disturbances. These are not only of a random nature; some that flow inexorably from the conditions of a war economy cannot always be foreseen sufficiently early to permit surefire preparation to meet them.

Adjustment Jobs

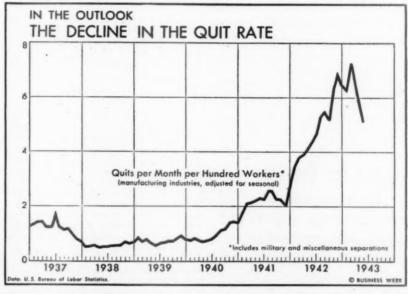
Take manpower. Though over-all curves are straightening, the job of filling key needs in order of importance at the right time and place is getting tougher. The result is a continuing reduction in labor forces for lumber, paper, copper, coal, textiles, and some other industries and, therefore, a growing pinch on basic materials supplies. Further, arms plants can't keep up to

labor schedules. Therefore, government controls must tighten: fathers are warned to get into essential work, more stringent job-freezes are prepared, a national service law is again discussed, priorities machinery for supplying labor to industries in critical areas is strengthened, and so on.

Or take war production. We may be closing in on the 100-billion-dollar rate of war effort reaffirmed by Roosevelt for fiscal 1944, but specific programs still change radically. Cargo planes are to be shifted entirely from wood to metal; a big new midwest plant is to make fighters instead of bombers; some ammunition contracts recently cut back are again being enlarged; heavy steel requirements turn up for landing mats; cotton and wool contracts are being canceled or diverted to different agencies, and delivery dates variously deferred or advanced.

Effect on Civilian Supply

These changes, in turn, affect civilian supply. And, food prospects move with the weather—for the better over the past



The three-month drop in the quit rate must not be taken at face value—though the implications are correct. The chief reason for the drop is the steady decline in percentage of military plus miscellaneous separations—from 2.03 per hundred workers last October to 0.73 in May. That was due to a reduction in draft quotas; to increased inductions of 18-year-olds, most of whom were in school or in nonfactory jobs; and to the fact that,

while manufacturing employment has been rising, the proportion of draft-eligible men has been declining. Voluntary quits increased—until May, when job-shifting dropped sharply, which may be proof of the efficacy of recent government rulings directed toward job stabilization. In the net, the figures show that plant managers are having to replace fewer workers per month—even as replacements become more and more difficult to find.

month, incidentally. Improved ship supply overturns coffee, sugar, and similar commodity situations.

Steel especially illustrates the sensitivity of business operations to even slight changes in the outlook. Because of bad weather on the Great Lakes, WPB estimates of iron ore shipments down the Lakes which were first reduced from 95 million to 91 million tons have again been chopped to 86.5 million. Since steel capacity expansion had been delayed, the first cut did not upset steel-making plans. But the new drop in estimates-which reflects a reluctance to reduce grain, coal, and other lake shipments in favor of orewill require additional scrap to feed furnaces, insofar as scrap-ore ratios can be raised. Though scrap supplies have been considerably eased since last year, they, too, have been growing tighter of late. The net result will be a squeeze on raw materials for steel in the winter and spring months-and, probably, reduced ingot output.

Labor and Inflation Shifts

The workings of the Connally-Smith Act (page 15) illustrate in the labor relations field the interjection of new elements into business practice, another one of which is John Lewis' change of heart about reentering the A.F.L.-perhaps motivated by the aid that the Connally-Smith law may render to jurisdictional raiding by his District 50.

On the inflation front, the question of how well the line will be held in the future clearly depends on how much of the Administration's new food-price program will be accepted, and how much of it works (page 16). And perhaps equally important is what kind of a tax bill will develop from the congressional labors which are soon to begin.

Road to Peace

It's strewn with rocks and unemployment, in view of NRPB agency, unless rigid civilian and military controls are maintained.

Business men will be disappointed it they try to find a detailed blueprint for a postwar economy in the new report on demobilization written by the Conference on Postwar Readjustment of Civilian and Military Personnel. However, anyone who sticks with the report through its 106 pages of estimation and exposition will come out with a pretty good idea of the general policy the Administration wants to follow when it starts to shift the country back to a peacetime basis.

• Semiofficial Status—Coming just after the President's fireside chat with its postwar overtones, the conference re-



NEW MEN-OF-WAR

Two new warships were added to Uncle Sam's fleet this week—each bearing special distinction. The aircraft carrier Bataan (right), launched by New York Shipbuilding, Camden,



N. J., commemorates the Philippa bloody defense. Meanwhile, the stroyer Cotten (left) was delivered Federal Shipbuilding, Kearny, N just 166 days after keel laying to a new record and beat the average in category by more than 100 days. str

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port acquires a sort of semiofficial status even though Roosevelt passed it on to Congress without detailed indorsement. As an offshoot of the now defunct National Resources Planning Board, the conference can expect its ideas to take a mauling from insurgent congressmen.

The conference makes a total of 96 more or less specific recommendations, which boil down to four basic principles:

(1) Treat the problem of demobilizing the armed forces and reemploying war workers as a subheading under the larger problem of establishing a high-consumption peacetime economy. Gear the rate of demobilization to the progress of industrial reconversion so that soldiers won't be discharged until there are enough jobs to go round. Plan the termination of war contracts so that some work on Army and Navy orders will continue until civilian production is ready to take up the slack.

(2) Continue controls over prices, wages, etc., until the peacetime economy is running under its own power.

(3) Provide educational and vocational training opportunities for both soldiers and war workers. Set up elaborate advisory services to furnish information on employment and readjustment.

(4) Put the administration of demobilization and rehabilitation in the hands of a single powerful agency.

• Follows President's Pattern—Working from these general principles, the conference makes more detailed suggestions for demobilizing the Army. Its program is the same as the one the President cited in his speech—three months' furlough with full pay for soldiers about to be mustered out, unemployment in-

surance for 26 weeks for dismissed diers, special educational courses advisory services, veterans' credit for age and survivors' insurance on the of service in the armed forces.

Delayed demobilization of the an forces probably is the touchiest point the report. The conference—which cludes representatives of the An Navy, Veterans Administration, as well the NRPB—thinks it is unavoidable, cording to its guess, conversion to a ian production will take about two at a minimum. Mustering out mill of men in the first year or so we knock the bottom out of the job may and might throw the whole econs into a depression.

• Postwar Unemployment Seen—As conference figures it, the armed for will be the only big group "over withe nation could, in the event of nomic crisis, exercise any degree of rect control, and it would be dange to surrender the possibility of this trol until postwar conditions are known." This assumes implicitly there will be no labor draft or national service law. Hence, to control the ment of labor, the government will to retain its grip on men in service.

Even if things go according to the conference expects postwar to tion to be a bad time. It estimates at one time, as many as 8,000,000 may be out of work. Even after years of adjustment, a figure of 3,000 unemployed isn't improbable.

puble on the Way

Strike vote at Allis-Chalmers illustrates how minority will reap advantage from Connally-Smith Act and create lence in war plants under threat of government seizure.

first strike ballot conducted by ational Labor Relations Board unterms of the Connally-Smith abor Disputes Act was taken this in the Springfield (III.) plant of lis-Chalmers Mfg. Co. The out-of the voting was less important the precedent and principles it red on our wartime industrial re-

is' Boys-Adding to the inconof the situation is the fact that non which has declared its intenstrike is District 50 of the United Workers of America-John L. 'organization which, because of gressions in coal, was responsible e enactment of what was intended a labor peace law.

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s already apparent that, as far as gement is concerned, the new law ake more trouble than it will elim-More than 40 unions, A.F.L.,

nand independents, already have trike notices under the act. Organabor sees it as an instrument that e used to its own advantage. The Chalmers case illustrates how.

RB Vetoed Vote—A.C 's Springplant has a contract with the Farm ment & Metal Workers of Amer-J.O., which does not expire until 15, 1944. Previously NLRB threw petition of District 50 for a barng representative election. The maintained that the existing conbetween the company and C.I.O. bar to an election.

on the passage of the Connally-Act, however, District 50, which represents nobody in the plant, notice of intent to strike. NLRB Attorney General Francis Biddle structions. Biddle cited the lant of the statute—"the representative group of employees"—and held it an that any representative, even if ing for a minority, could petition strike vote.

Contention Rejected—As a rethe opinion, NLRD rejected Allisners' contention that strike referunder the Connally-Smith Act be d solely to applications filed by entatives certified by NLRB as relusive agent for all employees.

Congress and the courts allow the ruling to stand, the War Labor tes Act will live up to its title. The groups in every war production in the nation will have license to or a strike on the basis of any desthey care to present. Further, will be licensed to agitate for a

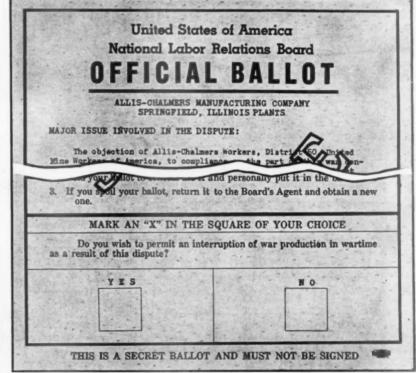
majority for 30 days during the so-called "cooling off" period which the law provides. Then, if they fail to carry the vote, nothing is to prevent them from going through the same procedure over and over again. In the event that demands can be presented which will attract a majority to vote for a strike, it can easily end in government seizure of the plant.

• Kaiser Case Revival?—Unions which are trying to push their way into plants where other unions are recognized will use the Connally-Smith Act freely. It is practically tailor-made for the C.I.O. in its battle against A.F.L. closed-shop contracts in Henry J. Kaiser's shipyards

-a battle which appeared ended when NLRB threw out a petition for a collective bargaining election (page 76), but which can start all over again under the new law.

The act will also be very useful to unions operating in situations where the threat to ask for a strike vote and evoke government seizure will wring concessions from management as the best alternative to losing its plant.

o Teamsters Try Luck—Another significant type of dispute which will keep NLRB busy taking strike polls is exemplified by the second ballot the board has scheduled. This one involves a local A.F.L. teamster union in Newark, N. J., which is dissatisfied with Office of Defense Transportation regulations under which the New Jersey Laundry Owners Assn. must operate. The laundry owners can do nothing about these regulations, and the teamsters hope to get ODT overruled by the White House by voting to strike under Connally-Smith procedures and precipitating govern-



Under the Connally-Smith Act, the National Labor Relations Board must poll employees of an establishment where a strike is threatened on the question of "whether they will permit any such interruption of war production." The ballot it presented to Allis-Chalmers workers (above) indicates how the question will be phrased on ballots for other subsequent strike votes. Of equal importance, however, is NLRB's authority to "include on

the ballot a concise statement of the major issues involved in the dispute and of the efforts being made and the facilities being utilized for the settlement of such dispute." Thus, NLRB has a wide latitude in which it can make a union's proposal more or less attractive to voters. In the A.C. case, its statement of what was involved was so complex that most employees probably didn't bother to read more than the question over the voting squares.

ment seizure of laundries which serve Army camps.

All in all, the Attorney General's Allis-Chalmers ruling, added to the ambiguities of the law, make it certain that Congress' one legislative modification of the New Deal's labor policies will end in a failure that will be costly alike to management and the war production program.

Costs Under Fire

OPA and WFA are agreed on a program to drive down the cost-of-living index by buying crops and selling at a loss.

Admittedly-like England and Canada long before-the U.S. is moving away from price control into index control. With the unions playing the game of Little Steel formula vs. cost-of-living index, the Administration is concentrating all its efforts to move the Bureau of Labor Statistics' thermometer back to last September's levels (where it presumably is safe from union criticism). Now, between OPA and the War Food Administration, a program has been cooked up to give the index one final backward shove

• What's Cooking-Here is roughly what is on the fire:

(1) The government will take advantage of a surprisingly good crop year to buy up a few key commodities whose production is at record levels. Farmers will be paid better prices than they could legislatively pry out of a sympathetic Congress. Once the government has the crops, it will auction them for whatever the market will bring. This means low bids from middlemen (in view of the big supply), and hence low prices to

(2) For a few crops whose production is below par the government will boost support prices, and then introduce the commodities into trade channels at cheaper figures. This process will assure the farmer a satisfactory return, prevent middlemen from trying to outbid each other at the farm level, and guarantee lower retail prices.

• To Drop Index 6%-Coupled with existing devices-meat and butter rollbacks, reductions in certain food ceilings, and better price-policing-the buy-sell program is designed to effect a 6% cut in the cost-of-living index. crops on which WFA and OPA have their eye are understandably the subject of a great deal of secrecy. Initially, Congress won't be consulted on the program because government lossesduring the first few months, at leastwill be small enough to come within existing appropriations.

Rumors of just such an operation have been floating around in Washington for months, but heretofore they were largely guesswork. OPA all along favored rollbacks as against the buy-sell idea. The virtue of a rollback is that the government can pick one or two major items-like meat or coffee or but-

INDEX ROLLBACK

The Administration's plan to throw the Bureau of Labor Sta tistics' cost-of-living index nto R verse so rapidly that 1943 wil wind up with a net drop is based on the following estimates:

Latest (June) c. of 1. index figure . 1241 Reduction through meat and butter Reduction through lower ceilings on fish, cabbage, and lettuce... Reduction through better policing of community ceiling prices... Reduction through government buying and selling operations. Total reductions . C. of 1. index at end of year...

When the total reductions have materialized, the index hypothet ically will be back to where it was last September. Actually, however, the index may not get the low because new upward pre sures will prevent the full drop from being felt. On the other hand, the Administration is confident that next December the index will surely be less than 120. -the figure as of Jan. 15, 1943.

ter-and knock the price down 50 that the whole cost of living slides h ward. Since the object is index conti not price control, it makes little diff ence whether the commodity to rolled back has too high a price begin with or not. All that matter 00.00

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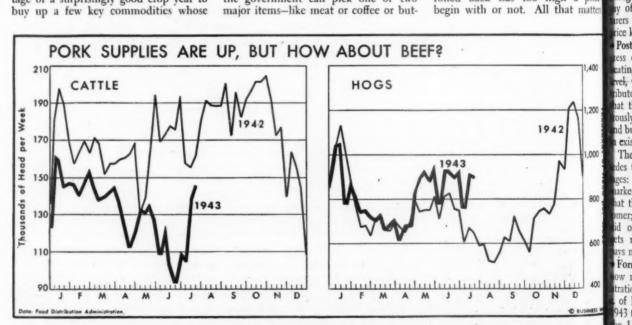
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That the meat supply picture is considerably brighter than it was a month ago is indicated by Food Distribution Administration statistics covering federally inspected slaughter in 27 selected cities. Pork production has

been ahead of 1942 since late April; the usual late summer drop has failed to materialize due to feed shortage and the record number of hogs on farms. Cattle slaughter started to rise this year about a month earlier than

normal-also largely due to the shortage-and the influx of grass steers may push the curve above an ago. In fact, the better than seaso rise in slaughter has borrowed hear from the winter meat supply.



ACKARD EXPANDS

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o keep its Rolls-Royce engine outat up to aircraft production, Packard taking over Aviation Corp.'s \$5,-0,000 plant on which construction as halted after it was 90% completed (BW-May22'43,p5). Packard's president, George T. Christopher (left), and R. R. Rees, manager of the new plant at Toledo, Ohio, expect its production to start in a few weeks. It will swing into capacity output during the final quarter of 1943, they say.

at the c, of l. is affected, and that nough subsidy money is available to ay off the middlemen and manufacners who would otherwise lose in the rice knockdown.

Postwar Collapse Feared—But Coness emphatically vetoed the idea of eating down prices at the consumer web, while artificially propping up disibutor and producer profits, for fear hat the scheme would collapse disasously after the war. Only the meat and butter rollbacks, which already were existence, were salvaged by OPA.

The buy-sell program, which superdes the rollback idea, has two advanges: (1) It is defensible as a straight larket operation, granting, of course, hat the government is the No. 1 cusomer; and (2) it operates—with splenid opportunism—so that the farmer ets more money, and the consumer ays much less, for certain crops.

Formula's Reprieve—All in all, it is ow not improbable that the Admintration will be able to boast that the of l. index was lower at the end of 943 than at the beginning. With that, he Little Steel formula is seemingly ranted a reprieve. How long the prejous index can be pampered out of its igh blood pressure is something else gain. But for 1943, at least, major vorries over a race between wages and rices are dissipating.

Incentives Pay

Navy's new contract offers immunity from renegotiation and a crack at bonus money as bait for manufacturers.

Latest wrinkle in government procurement policy is a new brand of incentive price contract worked out by the Navy. Like the Army's "forward pricing" and the Maritime Commission's "price-minus" contracts (BW-Mar.6) '43,p18), it offers contractors a double bait: (1) immunity from renegotiation, and (2) a chance to earn a bonus by shaving costs below original estimates. · Percentage of Saving-Instead of fixing a flat price, the new type of contract sets up a target representing the most probable cost and the profit to be earned on it. In case the contractor runs into tough going, the Navy undertakes to cover him up to a specified amount above the contract price. If he cuts costs below the target figure, he gets a percentage of the saving.

In practice, the deal works out like this: A contractor offers to do a job for \$100 a unit, a price which covers probable cost and makes allowance for contingencies such as increased labor cost. Instead of this, the Navy offers to pay \$90 cost and \$5 profit. It agrees to protect him up to \$100 if costs run higher than expected, and to give him 10% of the saving if he can cut costs below \$90. Whenever there's enough cost data to make the target price a reasonably accurate forecast of expenses, the Navy will exempt both profit and bonus from renegotiation.

• Everybody Likes It—Procurement officers like the new contract because it encourages contractors to beat down costs. Manufacturers like it because it gives them protection similar to a cost-plus-fixed-fee contract and still leaves them a chance to earn a bonus.

Starting cautiously, the Navy has been trying its new system on half a dozen contracts, most of them fairly small. So far, the plan has worked out nicely, and procurement officers want to extend it to bigger jobs. The Navy doesn't intend to make incentive pricing compulsory but is willing to talk it over with any manufacturer who would like to try it. • Conn Signed First-First company to sign one of the new incentive contracts was C. G. Conn, Ltd., Elkhart, Ind., which used to make musical instruments. Last March, Conn converted to the manufacture of airplane instruments. The cost data of another company making the same indicator showed that expenses might run as high as \$272.50 a unit.

The Navy's incentive contract with Conn called for 23,203 instruments, divided into three lots. For the first 5,000 units the Navy agreed to pay \$260 each (\$249 cost plus \$11 profit). Conn was to be protected up to \$280, and if it could cut costs below \$249, it was to get 10% of the difference.

On the next 10,000, the contract price was \$210, protected to \$230, with the company getting 10% of savings below \$196.30. The last 8,203 units carried a fixed price of \$195 with no protection.

• Both Profited—After adding up the final score, both the Navy and the company think they came out pretty well. The first 5,000 units (contract price \$260) cost the Navy \$201.82 each. Of this \$128.30 was normal cost, \$56.06 nonrecurring cost, \$11 profit, and \$6.46 bonus. The next 10,000 (contract price \$210) are costing \$152.76 apiece—\$132.70 normal cost, \$13.70 profit, \$6.36 bonus. On the last 8,203, the company voluntarily cut the fixed price from \$195 to \$152.45, and when it got an additional order for 14,000 units, it knocked the price down to \$148.50.

In the end, the Navy is getting its 23,203 indicators at an average cost of \$163.22 a unit instead of \$215.47. Altogether it paid \$3,787,247 instead of \$4,999,585, a saving of \$1,212,338. The company got a bonus of \$95,900 besides its ordinary profit on the contract, giving it an over-all profit of 12.5%.

Ships Level Off

This year's goal is in sight, but 1944's will be tougher. Vast peacetime fleet of ghost ships heaving into view.

Cargo shipbuilding, on which war materials for the United Nations chiefly depend, has reached a temporary plateau, but that happens to be also its goal for the time being. Shipbuilding was not the first production category to have that honor, as some press reports said. Ammunition, tanks, and automotive equipment months ago cleared the high jumps that were set for them.

• Phénomenal Record—But no phase of war production surprised the world as shipbuilding has done by its phenomenal speed. In the first half of this year, the industry delivered just under 9,000,000 tons. The June rate of 1,700,000 tons is at a rate that just about guarantees the 1943 quota of 19,000,000 tons.

Next year's objective is 21,000,000 tons, officially. But the Maritime Commission has under its hat a mark of 25,000,000 tons which it thinks could be hit if the program were put under forced draft. There will be more national energy available for diversion to

TEN TIMES AS FAST

From a half ship a day in January, 1942, to more than five ships a day, every day in the month, in June, 1943—that's the record of U. S. war cargo shipbuilding. The following figures show the number of cargo ships of all kinds—"C" models, Liberties, and others—built in each month of the past year and a half during which the ten-fold increase has been scored.

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ships as other categories are cut back, and there will be steel.

• First Victory Ship—Nevertheless, the job will be harder than it looks because, in February, the first Victory ship will be delivered, and some time will be lost throughout the year in converting yards to this faster, turbine-powered, peacetime ship (BW—Jul.24'43,F7). The Victory model will be slower to build, too. Probably two or three hundred of them will be turned out during the year, depending mainly upon the delivery of turbines, reduction gears, turbogenerators, and high-pressure boilers.

Orders for the slow Liberty ships must still be placed, for the war command dares not risk a bottom shortage. It is true that, due to opening of the Mediterranean, one ship, in some cases, has already done the work of five. But this gain was more than offset by the vast new tonnage requirements of the war on Italy. The requirement will be swelled by new attacks in Mare Nostrum or on Germany through Italy. The earliest date hinted thus far for a ship cutback is late 1944.

• Future of Liberties?—The War Shipping Administration and the Maritime Commission are saddened by the certainty that, after perhaps two years of rushing supplies to the hungry and threadbare world, the Liberty ships will be tied up again in long silent quays to await the next war. No one will dare to junk them.

Already there is apprehension that the U. S. will not be able to hold its own in postwar trade against cheap foreign labor competition. This angle was lifted into the news this week by the War Shipping Administration's announcement of transfers of shipping to foreign powers with a current surplus of maritime workers.

time workers.

• U. S. to Keep Title—Adm. Emory S. Land revealed that Norway has chartered 80,000 deadweight tons; Britain has received five ships and will get between 15 and 20 ships a month for ten months; two ships will be chartered to the Greek government, and three to the Netherlands government. While the ships will fly foreign flags and be manned by foreign crews, title will remain American. The Combined Shipping Board will control movements of the vessels leased to Britain, and the United States will direct the use of the other vessels.

The question being raised in shipping circles concerns the eventual disposal of these ships, ostensibly loaned for the duration. If they are not returned, Britain will end the war with a building jump on what her position might otherwise have been. In competition, American flag ships operate at a disadvantage due to labor costs, although the Merchant Marine Act of 1936 does provide construction and operating subsidies for ocean trade.



HEAT-CLOSED CONTAINER

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WPB's blessing on production of some 100,000 home dehydrators betten manufacturers (BW-Jul.104, p84) is heating up a big demand for dried food containers. While glass jars are perfectly suitable, they are needed for liquid packs; hence the swing is to such noncritical items a cardboard boxes. Typical of these is the new container made by Interstate Folding Box Co., Middletown, Ohio Made specifically for dried foods, it has a moisture-proof inner bag that is easily sealed with a flat iron.

Everyman's Giro

Firestone is the latest of long list of those who intend to fill the postwar sky with ships of rotary wing type.

Aspiring aircraft builders are preparing to cloud the postwar skies with rotary wing ships. That they fully expect such a boom is shown by recent shifts of men and organizations experienced in helicopter and autogiro design.

• Firestone's Entry—Most significant all the moment is last week's announcement of the acquisition by Firestone Aircraft Co. of G & A Aircraft, Inc., of Willow Grove, Pa. G & A is an outgrowth of the Pitcairn Autogiro Co. one of the first to bring rotary wing designs to the U. S. over a decade ago.

When the Pitcairn interests bought licensing rights for the patents of the late Spanish designer, Juan de la Cierva, the autogiro was a crude affair. Subsequent prewar technical developments Pitcairn, G & A, and Kellett Aircraft re included such improvements as mination of stub wings, power appliion to the rotor for starting and over-eding for jump takeoff, coaxial pro-lers, and even roadability.

New Ideas Hatching—Since the war rted, G & A has been busy with many infidential projects in the autogiro, licopter, and glider field. Kellett has en manufacturing military autogiros addition to its subcontracting work, d the company has developed valuable as for postwar rotary wing applicams. G & A's and Kellett's developents are under the direction of their spective vice-presidents, Virgil Frazer d Richard Prewitt.

First fruits of the alliance of de-ner William B. Stout with Consolited Vultee emphasize roadability. o fixed-wing designs include (1) a 500-lb., three-place flying automobile wing standard automobile tread and res and a road speed of about 60 .p.h., and (2) an 800-lb. plane for ad or air with 400-mile range and a 1-ft, span. Both have folding wings d four-wheel landing gears.

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Helicab's Specifications-The rotary ing Stout ship is called a Helicab, cares two to five persons, and has a com-osite structure. This two-place model ith 125-hp. engine will have a gross eight of 1,700 lb. Rotor disc diameter 33 ft.; length, 25 ft.; width, 6 ft.; nd height, 8 ft.

Reminiscent of the prewar Stout kyear, these designs reflect the most dvanced automobile-type styling and nish. Associated with Stout is E. urke Wilford, founder of the Pennsylania Aircraft Syndicate and a pioneer the development of the Gyroplane hich differs from the Cierva machine that the rotors are feathering-that is, he blades change their pitch-rather han articulating in their connection ith the hub.

This development is based on the German Rieseler-Kreiser patents ac-mired by Wilford many years ago. In he same engineering group is Waldo Waterman whose Studebaker-engineowered roadable Airmobile was to be listributed through Studebaker sales gencies until the war intervened.

Higgins and Kaiser Cut In-Shipbuilders Andrew J. Higgins and Henry Kaiser are in the rotary wing develop-ment business with both feet and are erienced lso utilizing some of the outstanding alent in the field. Technical spearhead of Kaiser's helicopter development is Prof. Otto Koppen of Massachusetts Institute of Technology who has created irestone nany successful designs in both rotary nd fixed wing aircraft.

Koppen is remembered chiefly for the design of the two-control, spinproof plywood airplane developed by General Aircraft of Long Island City, N. Y., one model of which will be built under license by Grand Rapids Industries, Inc. (BW-Jul.10'43,p19). The Koppen designs will be developed, and probably manufactured, at Kaiser's recently acquired Fleetwings division, Bristol, Pa.

The Higgins hand is seen in the formation of Rota Wings, Inc., a new Philadelphia company with old talent. President is Agnew Larsen who contributed brilliantly to Pitcairn autogiro developments from the earliest days until he resigned to join the Philadelphia firm of Machine & Tool Designing Co. and its associated Pecker, Simpson & Gladeck, both specialists in the manufacture of intricate rotary wing aircraft parts and subassemblies.

· Sikorsky Goes Ahead-Grandfather of American helicopters, the Vought-Sikor-sky VS-300, still holds the flight duration record and is undergoing continuous secret development (BW-Apr.24 '43,p22). This machine, or some modification of it, is to be built under license by Nash Kelvinator.

Shrouded in secrecy is the long-standing Platt-LePage design, although airport snoopers report they have seen it in the air. Haviland Platt formerly was chief engineer for Wilkening Piston Ring Co.; Lawrence LePage is an aeronautical engineer and a former editor of

Still another helicopter now being developed in the Philadelphia area is that of Frank N. Piasecki, president of the P-V Engineering Forum, Inc.

• Many Other Entrants-Numerous rotary wing designs have been conceived or are in secret construction by aircraft manufacturers. It would not be too farfetched to assume that something has Lockheed, Curtissbeen done by

Wright, Bell, Allied, Adel, Beech, and Grumman. Each of two large automotive manufacturers has added a man well versed in rotary wing design to its engineering staff; one of the largest electrical manufacturers is self-consciously guarding its interest in the field.

Design problems on rotary wing craft are among the most complex in modern engineering. Consequently, aircraft experts are paying little attention to entrants in the helicopter race who haven't the backing of strong organizations staffed with experienced engineers. The best of talent is none too good for the manufacturer who hopes to succeed in this galaxy of postwar competition.

Egg Scramble

Both chickens and eggs are in big demand, but neither OPA nor WFA can see any way that they could be rationed.

Discount most of the talk that OPA and the War Food Administration will try to unscramble the poultry-egg situation by rationing. As suspected, neither OPA nor WFA has the stomach for the job, although OPA only a few months ago loudly threatened to curb the poultry black market by the coupon system (BW-Mayl'43,p82). Nobody has yet discovered how anything as decentralized and as seasonal as chicken and egg production can be crowded under a rationing plan that will work.

• What Will Be Done-WFA is consoling itself with the statistical knowl-



Long the champion of planes that will double as automobiles, William B. Stout has several designs in the works at Consolidated Vultee. Here he puts finishing touches on a model of his Aerocar whose wings fold back when it hits the road. Equally interesting to aircraft builders is his vertical lift, rotary wing Helicab designed for two to five passengers.

edge that there will be as many eggs this year as last, while OPA is exhorting consumers not to pay over-the-ceiling prices. That's approximately the whole story on what will be done about eggs.

Neither WFA's glowing statistics nor OPA's blast on prices adequately explains why there should be any scramble in eggs at all. The answer is twofold: (1) The demand is high, due to meat rationing, and (2) there is going to be a bad seasonal slump in supplies.

• Civilians Cut Two-Thirds—Ordinarily, the decline in egg production that sets in during the fall is counterbalanced by the use of storage eggs. Last year, civilians got 3,000,000 cases. This year they'll get only 1,000,000 cases (the military procurement agencies get the rest). Thus, although each civilian will get 338 eggs in the coming twelve months (as against 320 in calendar 1942), he had better not count on eating a normal proportion of them in the fall.

As for poultry, in heavy demand because of the shortages of rationed meats, there is hardly any supply problem at all-23% more chicks were hatched this May, for instance, than a year ago. But the problem is how to get the poultry off the farm and into the markets. Farmers are complaining that prices are too low; middlemen squawk that their margins are inadequate; and consumers are belaboring OPA for creating artificial scarcities that result in black markets.

• Chickens Commandeered—Faced with what is mainly a price problem, OPA has written and rewritten ceiling regulations until it is blue in the face. As a last resort, the price agency got the Army to stop poultry trucks on the road

and commandeer chickens at ceiling prices.

This move had one salutary effect: It scared the middlemen into some sort of price observance and curbed the practice of overpaying the farmer

tice of overpaying the farmer.

• Farmers Seek Higher Price—But the farmers are fighting mad. They claim that the price of baby chicks has jumped from 12¢ to between 14¢ and 18¢ during the past year, while feed prices have advanced from \$3.50 to \$3.90 per 100 lb. Since baby chick prices account for approximately 20% of the final price of poultry, the farmers want the chick price increase translated into a 3½¢-a-pound rise in the money they get from middlemen. That would bring farm prices up from 28½¢ to 32¢. As a compromise, the Senate Small Business Committee has suggested 30¢.

OPA Administrator Prentiss Brown is flatly opposed to increasing prices. But last week he promised two other remedies: (1) a ceiling on baby chicks, and (2) a ceiling on hatching eggs. About feed prices, an equally vexing problem, Brown said nary a word. Since OPA and WFA have agreed to leave the price of corn at \$1.07, while putting a ceiling on hogs at \$14.75, corn will continue to go into hogs. Result: either a decline in chicken production, or black markets in feed, probably the latter.

• Case for an Optimist-All of this bodes a zig-zaggy market in poultry. OPA can keep prices somewhere within reason by calling out the Army. It can also bank on the probability that there won't be an absolute shortage because farms are swarming with poultry which some day, somehow, must be sold.



CABIN CRUISER TAXI

Taxi service on the Chicago River, a kind of cabin cruiser ferry between Chicago's west side railroad stations and the Michigan Avenue bridge, began last week after three months of wrangling over a city ordinance and delayed Coast Guard approval. The one-way fare is 25¢ for a six-minute ride. Arthur Agra and Clyde Erzinger, the operators, have two 30-passenger boats, running every 15 minutes during morning and evening rush hours.

Trucks Pooled

Chicago carriers, with the blessing of ODT and ICC, get together on plan lumping me and equipment for duration.

What may well develop into a nation wide pattern of pooled trucking equayment took effect this week at Chicago After months of study, the Office of Defense Transportation and the Interstate Commerce Commission last weak authorized a program which is unofficially considered the experimental installation that will affect suburban hauling in every other metropolitan area. The plan was proposed first by 33 common carrier haulers who handle about three quarters of all highway freight within the Chicago suburban area. The estimated saving is 5,000,000 truck miss annually.

• Efficiency Plus—Basically, the arrange ment eliminates competition for the duration, thus permits using personnel and equipment to theoretical capacit. The participating truckers report to a central dispatching office the loads they have booked and the destinations. The central office thereupon assigns the actual hauling to whichever carrier is most advantageously situated to handle it.

Empty miles are eliminated and approximately full inbound and outbound loads are assured, with all unneeded equipment sitting it out. Interchang of trailer equipment is provided for Participants expect each tractor to wor 24 hours a day, making two round trip.

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Participants expect each tractor to work 24 hours a day, making two round triple between Chicago and peripheral point instead of one trip as at present. Freight bills will be rendered in the name of the originating carrier in order to preserve his goodwill standing with the shipper.

• Better Service Coming—Service provided by these haulers in recent months has been admittedly less than perfect. Earl Girard, general manager of the Chicago Suburban Motor Carriers Assn., who promoted the plan, is confident it will enable members to give shipper and receivers at least as frequent and reliable service as they have ever enjoyed.

The central dispatching office began functioning this week with a partial staff. Full-scale operations are scheduled for Aug. 9. First coordinaton of trucking was between Chicago and the North Chicago-Waukegan industrial district 40 miles north, including the North Shore residential suburbs and two major military establishments that lie along the way.

• Traffic Analyzed—To permit most effective use of all equipment according to the existing pattern of traffic, partici-



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This year alone, American steel mills I have turned out the steel needed for intless wartime uses. Steel for an estited 60,000 tanks, 90,000 airplanes, ,000,000 tons of shipping ... steel for ns, shells, and bombs. Steel for great bles like those that righted the Oklama and other battleships sunk at Pearl arbor . . . steel for the fleets of scrapers d tractors that helped build the Alasn highway.

Result of courage and faith

These contributions to our war effort dn't just happen by accident. Long bere Pearl Harbor, farsighted steel manement had the courage and the faith to crease steel capacity far beyond imme-

Management was able to do this beuse of our natural resources, our native genuity, the skill of American manower ... and the millions of dollars inested in industry by people who have ith in America's future.

Among these are the policyholders of merica's life insurance companies. brough their companies, 67,000,000 polMetropolitan for policyholders.

These investments have been made not only in the steel industry, but in the aluminum, rubber, oil, chemical, and many others. Our war effort requires maximum production in these industries. This production could not have been attained without adequate financial backing. Every life insurance agent who persuades some individual to provide or retain life insurance is the means of making life insurance dollars available for such investments

Today-war comes first

Today, most of Metropolitan's fund available for investment is going into United States Government Bonds to help finance the war. When the war ends, the dollars that policyholders have set aside to insure the security of their families will again be ready to support and encourage sound and stable peacetime industries.

Steel, for example, is already doing its postwar planning. The present feats of that industry are an indication of what we may expect in steel for better peacetime products, ranging from railway equipment to kitchen cabinets, and from automobiles to bread knives.

Planning for the future

Just as life insurance policyholders contributed to our present industrial capacity, every one who uses life insurance to plan his own future is helping, through payment of premiums, to underwrite industry's postwar planning.

For Metropolitan's 30,000,000 policynolders have faith in the continued and growing greatness of their country.

BUY WAR SAVINGS STAMPS FROM ANY METROPOLITAM AGENT, OR AT ANY METROPOLITAN OFFICE



How to Cut Lighting Maintenance Time



The "Watch Dog," newest in the G-E line of fluorescent lamp starters, does not have to be removed every time a dead lamp is replaced—it remains in the fixture, ready to start the new lamp. This reduces the time spent in lighting maintenance. Further, it permits immediate replacement of dead lamps because no "cooling" period is required.

What's more, the "Watch Dog" is a precision lamp starter and a dead lamp stopper that ends blinking and flickering. Precision starting adds greatly to lamp life because it uses a minimum of emission material so vital to long lamp life.

For additional data send the coupon below.

=	Section G831-102 Appliance and Merchandise Dept.	
	General Electric Company Bridgeport, Conn.	
	Gentlemen: Please send me additional information about your new FS-40 "Watch	1
	Dog" Starter.	-
	Name	
	Company	
	Address	
	City State	

GENERAL ELECTRIC



ROAD TO TOKYO

Many of the men who dug the Japanese out of bleak Attu with bayonets are now wielding picks and shovels and driving bulldozers to build the first permanent base on the lonely outpost. While Seabees and labor

corps rush construction of bar and warehouses, engineers are grade the main drag which soldiers had dubbed "Tokyo Rd." When it completed, this tent city will be to springboard for all-out attacks on had anese installations on nearby Kis and finally on Tokyo itself.

pants report every load and every destination for tabulation and analysis. Meetings of shippers are being held simultaneously to explain the plan; the first will be early next week in Waukegan.

No change in the financial setup of the participating companies is contemplated. They intend merely to parcel out the available freight on a fair basis and whack up the revenues according to the work performed. The ODT made this arrangement feasible by setting up an official tariff scale effective even for intrastate transfer changes and for the Chicago switching district, where rates had been pretty much catch-as-catch-can.

• Mergers Ahead—Participating companies recognize that the advantages inherent in this pooling plan are equally desirable after the war. ODT expects them to press for legislation specifically authorizing the continuance of such controlled competiton to avoid any possible tangle with the antitrust laws. The carriers, however, see no probability of any such cozy postwar condition. Realists in the arrangement are betting, instead, that the 33 companies will regroup themselves into perhaps eight or ten merged firms, according to the territories served.

Major suburban trucking points on the periphery of Chicago are Waukegan, McHenry, Elgin, Aurora, Joliet, Chicago Heights, and Gary. Considerable informal local cooperation is expected to develop as a bypass of t more elaborate central office procedu Already four firms operating northus to McHenry have set up their or program.

• Shortcut Procedure—Highway freig between Chicago and Barrington on the Cook-Lake county line soon will hauled exclusively in trailers. At Barrington, outbound loads will break but into smaller trucks, while inbound loads will be consolidated into trailers. On if they have any less than fully load equipment will the operators get touch with the downtown dispatchic center.

Platform congestion at trucking to minals has seriously slowed down more ment since Pearl Harbor. The suburbacturiers are now leasing a terminal builing for use in freight interchange amount themselves, but even more important for interchange with line-haul carrier. Thus, a truckload from Detroit for sorted consignees in the Chicago subban area can be dumped at the maternial, saving time and expense that the material saving time and t

• Pooling Repairs—Next probable standard will be consolidated or cooperate maintenance of equipment at a cent garage in Chicago. The repair situation is so desperate that practically every of the 33 outfits is expected to join the pooled maintenance program, with the central shop expected to be reated begin repair operations before Thanksgiving.



Behind each tab is a SAVING MANPOWER

Behind each of these tabs there is detailed, comprehensive information describing and illustrating how a specific war accounting job is being handled in the fastest time possible, with the greatest possible saving in manpower.

Altogether, this information represents the combined efforts of many men-officers in the armed services, government officials, war plant executives and Burroughs systems and installation men. Since long before Pearl Harbor, they have been working together in setting up and coordinating government and industrial accounting procedures and practices.

It is gratifying to know that Burroughs' experienced technical staff has been able to contribute so much to so important a task-and that, through this portfolio, so many ideas for saving both time and manpower can be made available to others. BURROUGHS ADDING MACHINE COMPANY . DETROIT, MICH.

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MANUFACTURING FOR WAR

The manufacture of aircraft equipment for the Army Air Forces, and the manufacture of Burroughs figuring and accounting equipment for the Army, Navy, U. S. Govern-ment and the nation's many war activities, are the vital tasks assigned to Burroughs in the Victory Program.

usiness Week • August 7, 1943



- Grim faces relax . . . cold Aleutian fog is almost forgotten and fighting hearts look home again as a Filmosound Projector flashes on a screen the laughter of the latest Hollywood smash.
- · Dog-tired Marines on a Pacific island watch the screen that brings home closer for an hour.
- · Serious lads in spotless uniforms learn grim war strategies . . . from movies filmed in battle.
- · A chaplain on the Alaska Highway makes Sundays unforgettable with religious films.

In every battle zone, on fighting ships, in camps ... the armed forces are finding important work for Filmosound Library movies and Filmosound Pro-jectors. This B&H team is giving generously of pleasure and information...helping fighters fight ... helping trainees learn the way to Victory.

On the home front, too, Filmosound Library's thousands of subjects are finding eager audiences . . . training first aid classes, doing vital morale work in industry, training workers for intricate new jobs.

And so, on both fronts, Bell & Howell equipment and Filmosound Library movies are "dug in" for the duration . . . doing war work to the exclusion of every lesser job.

Rent these latest Filmesound Library releases

Hellzapoppin, Paris Calling, Saboteur, Battle for Tunisia, Siege of Stalingrad

Your Bell & Howell dealer can give you full information on obtaining these new films



BUY WAR BONDS AND STAMPS

MOTION PICTURE CAMERAS AND PROJECTORS

Bell and Howell

The Heat Is On

But the lights will be d when WPB's power consention program gets under wa New plan replaces brownout

Having spent years building up dustrial, residential, and comm loads, electric utility salesmen and te nicians will start early in September persuade their customers that the m current anyone should use is the with which he can get along. At time, WPB's broad energy conservat program will get going.
• Explains to Utilities—The electric

dustry's part in this program was lined to 4,500 utilities last week bears the unanimous approval not on of the task committee which drew it but also of the informal industry visory committee which Office of W Utilities Director J. A. Krug consul

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periodically.

The electric program (BW-Jul) '43,p38) will replace the mandan brownout proposal which OWU shelp in June as well-nigh unworkable, anticipated savings of 4,000,000 tons coal and indeterminate amounts transportation, manpower, and crit materials for repair and maintenance be eclipsed if other industries join WPB's energy-saving campaign (co transportation, petroleum, etc.) do an job. In domestic heating requirement for the coming winter, WPB hopes save up to 18,000,000 tons of coal.

• Standards for the Industry-In add tion to eliminating all daytime advert ing, display, and decorative lighting, standards at which the utility indu will aim include the following:

Indoor and outdoor advertising, pro tional, and display sign lighting - Redu night burning hours as much as possi with the use in no case to exceed two hor between sunset and 10 p.m., local tim Allow signs directing patrons to or identification ing public places only when such places a open for business. Reduce lamp wattage all signs as much as possible.

Decorative and ornamental lighting, it cluding decorative flood lighting - External lighting should be eliminated at all tim Nonessential interior lighting eliminated Essential interior lighting must be reduce

as much as possible.

Show-window lighting which does not m vide essential interior lighting - Elimin such lights during day. At night, it is to limited to not more than two hours tween sunset and 10 p.m., with watta reduced as much as possible.

Marquee lighting (other than advertising and building entrances - Eliminate the lights during the day, reduce them to the minimum necessary for safety at night, an eliminate them except for protective need when the establishment is closed.

Outdoor business establishments - Us

lights during daylight, and reduce them nuch as possible at night; none to be except for protection when the estabment is closed.

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eneral interior and showcase illumina-Eliminate all nonessential lighting. uce the remainder as much as is conent with public safety and eyesight con-

General conservation by commercial cusers-Turn off appliances except when ully needed and eliminate unnecessary

ir conditioning-Adopt more moderate gins of reduction in temperature and tive humidity.

Whiteway street lighting-Reduce wherr possible to lower levels consistent with lic safety.

Residential-Eliminate all waste in use of liances. Use lights and appliances only en necessary.

Industrial-Call to attention of industrial rs all possible economies which will not mper production. Utility engineers should ist in making these economies but must de by the necessity for maintaining or reasing production.

There Are Exceptions-No effort will made to curtail necessary military, iation, police, plant protection, proction, or transportation lighting or at essential to the public health and ety, including eyesight conservation. Outdoor recreational activities are nsidered essential to wartime morale, e committees found, so the use of ectricity for such activities will not be couraged. Baseball, dog racing, conrts, and the like thus get a green light d all of it they need.

.2 Beer Again?

Brewers fear they will be rced by reduced malt supply stretch the brew by sorry rocess of making it weaker.

Old 3.2 beer, that prerepeal beverage which many a ruddy nose turned up scorn, may be coming back on the ings of a wartime shortage of malt. aving stretched malt supplies to the nit of good brewing practice with rice nd corn, brewers have concluded that ie only way left open for increasing eir volume is to lower alcoholic con-

3.2 for the Army-This is tied up with new government order which directs hat all 3.2 beer in the hands of brewers, p to 15% of plant capacity, may not e sold without special authority from the Food Distribution Administration. he War Food Administration, at the me time, transferred administration of

halt conservation to the FDA.
Further, each brewer must use 15% f his malt allocation to produce "beer his malt allocation to produce "beer". an alcoholic content of 3.2% or less." nts-Us These new provisions are for the an-



The oil and grease that accumulate daily around the machines in your shop make a dangerous hazard, threatening men and machines alike. This hazard can be easily, quickly, and economically eliminated by using SPEEDI-DRI-a granular absorbent that provides an immediate non-skid surface and thoroughly soaks up all oil and grease from wood, concrete, or metal floors. For all-round effectiveness in oil-absorption and floor-area-covered, nothing can compare with SPEEDI-DRI.

In addition to its anti-skid and oil-absorption properties, SPEEDI-DRI retards fire, brightens up the plant, improves employee-morale, saves man-power, eliminates the need for scouring floors, stops hot-weather floor-bleeding, helps to prevent shoes from rotting, minimizes the danger of foot-infections, and speeds production because it can be spread by hand and as easily cleaned up without shutting down a single machine for a single minute. There is only one SPEEDI-DRI.

Write for a generous, FREE SAMPLE of SPEEDI-DRI. (If you use water-soluble oils, or if water is also present, ask for SQL-SPEEDI-DRI.)



On Schedule!

Pan American Clippers . . .

Behind the rigid schedules for which Pan American Clippers are famous is an ever-active



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"ground crew"—skilled engineers and machinists charged with the responsibility of keeping the Clippers in shipshape condition for their long international jumps.

Buffalo Drills are dependable teammates of these maintenance experts at their Marine Base, La Guardia Field, New York. Here, in the engine shop, versatile Buffalo drilling equipment is employed on a wide variety of operations—performing with typical Buffalo accuracy, speed and ease of control...There's a Buffalo Drill designed right and built right for practically every metal drilling assignment. Details on the Buffalo line will be sent promptly on request.



BUFFALO FORGE COMPANY
458 BROADWAY BUFFALO, NEW YORK

Branch Engineering Offices in Principal Cities

CANADIAN BLOWER & FORGE COMPANY, LTD., KITCHENER, ONTARIO

Buffalo DRILLING MACHINES nounced purpose of providing enounced beer for the armed services.

• But There's More Beer—Brewers in the peculiar position trying to explain a so-called beer fam against a background of wartime punction that has been bumping a industry's all-time ceiling.

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Perhaps fatter and more numerous envelopes have something to do so demand. Perhaps voluntary trade a compulsory state monopolics' ratio ing of distilled liquor and higher liquid prices have transformed some while thirst into beer thirst. (The Alcohol T. Unit reported liquor withdrawals June were only 7,801,626 gallons, on pared with an average monthly rate the last twelve months of 11,399,6 gallons.)

• The Production Figures—But what ever the reason, the fact is that material beer is being consumed in this countries than ever before. The preprohibition peak was placed at 66,000,000 barns in 1914. The United States Brewer Assn. reported 1942 production of 67,701,035 barrels and estimated finds half of 1943 production at the annual rate of 69,000,000 barrels.

Most remarkable increase has be since 1941 when production was 50 770,000 barrels. This was about whe the industry had been led to expect we a good year's work, after a 1918 less of 50,000,000 and 1933-37 totals ranging from 43,000,000 to 58,000,000 barrels a year.

• Various Handicaps—Indications no are that if the brewers could get plent of malt—produced from barley—plent of metal for crowns, and plenty of map power and bottles, they could keep o breaking production records. However the realities of their supply situation may force an actual reduction in the latter half of this year.

Brewers, who used 72,000,000 by of malt last year, were allocated 6,000,000 but this year against brewer annual capacity of 97,000,000. Of the 32,000,000-but balance, 22,000,000 are earmarked for industrial alcohol to make smokeless powder and other waproducts, 8,000,000 are for food products, and the other 2,000,000 for export. There seems to be no hope among the brewers that they can increase the malt supply; production is running the full capacity of existing facilities.

• How Malt Is Divided—Under the new

• How Malt Is Divided—Under the norules, designated officially as Food Distribution Order No. 66, the WFA continued in effect the restriction of male usage among brewers who consum 70,000 bu. a year or more, to 93% of base period use, that is, in the corresponding quarter of the year ender Mar. 1, 1943. Smaller breweries ampermitted 100% of base period male consumption, and those using less that 2,000 bushels a year are exempt.

The local transportation problem, of

t importance in the brewing indusbecause the largest sales volume ds to be concentrated within truckdistance, may solve itself as a corolof demand exceeding supply. If customers want beer as urgently as duction figures indicate, they'll be ling to come and get it.

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hiladelphia Problem — Philadephia r distributors have proved this to ir own satisfaction. Under Pennrania law, delicatessens and taprooms limited to take-out sales of 72 oz. beer per customer. This means that one who wants more than six twelvence bottles must buy from a distributhous who is not permitted to sell less n the equivalent of 24 bottles of lye ounces each.

To give the bulk customers the servthey demanded, distributors used to liver until late at night. Many of m, when the Office of Detense ansportation banned deliveries of xury" items including alcoholic bevges, were ready to quit business. But their surprise, their sales held up and some cases actually improved.

Strictly Not for Pleasure—Customers me in automobiles—shopping, not asure driving—with children's express gons, baby carriages, and other oddly orted vehicles. When the ODT eased regulations to permit one delivery a ck, the Philadelphia distributors ted to stand pat on their original desion: no more retail deliveries while war lasts. The customers are still ming and getting it.

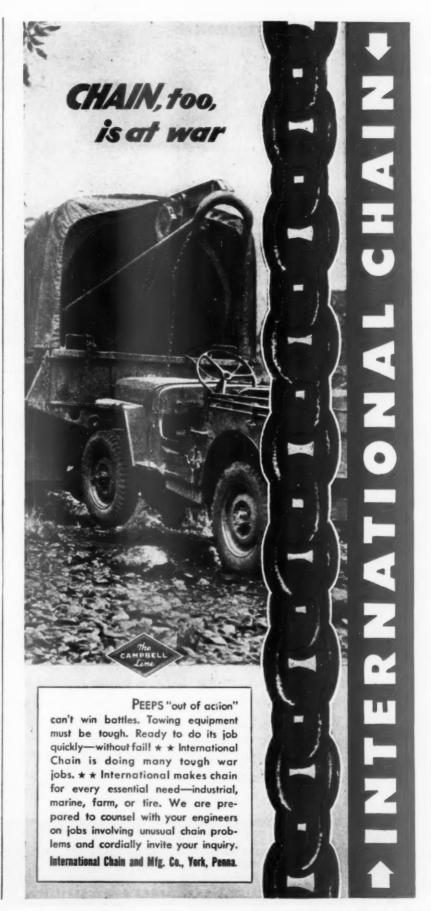
oubling Tankers

Shipbuilding firm hires to construction companies for anagement and consultation to our launchings.

Seeking to double its present rate of nker launchings, Alabama Dry Dock Shipbuilding Co. this week employed e services of two large New York conuction companies, Turner Construction Co. and Spencer, White & Prentis, c., for consultation and management tivities.

No Corporate Change—The collabation of the two construction comnies, whose experience covers such ojects as skyscrapers, naval bases, subitys, drydocks, and highways, does not volve any new corporate setup. Turner is a contract with Alabama on a fee sis related to the number of ships inched; Spencer, White & Prentis is sociated with Turner in the undertakg. Fred Spencer of Spencer, White & entis has been named vice-president Alabama Dry Dock in charge of the w ship division.

Spencer's vice-presidency is expected





As though always in the spotlight --

ODUCT

reflect sound engineering and modern manufacturing methods

Contributing to the inevitable Victory of the Allied forces, Wagner products reflect the exacting standards of quality which have been maintained since the com pany was founded over five decades ago.

This holds true not only for all types and sizes of power and distribution transformers and constant-current regulators made by Wagner, but also applies to all electric motors, fans, industrial hydraulic braking systems and other products making up the complete Wagner line.

If you need transformers, or other products made by Wagner, consult the nearest of Wagner's 29 branch offices, located in principal cities and manned by trained field engineers.

FOR VICTORY-BUY U. S. WAR BONDS and STAMPS

Wagner Electric Corporation

6460 Plymouth Avenue, St. Louis, 14, Mo., U. S. A.

ELECTRICAL AND AUTOMOTIVE PRODUCTS

its Steenbock patents relating the process for producing vitar D by ultraviolet irradiation of though it was set back in its fringement case against Vitan

NEW VITAMIN CASE The Wisconsin Alumni R search Foundation isn't giving

Technologists, Inc., of Los & geles in U. S. Circuit Court (B) –Jul.17'43,p57).

Latest development is an fringement suit brought again Douglas Laboratories, Chicago, volving two of the three pater at issue in the California co Moreover, the foundation poses to ask a rehearing in fornia; final step, if necessary, y be to go to the Supreme Court

to terminate with the manager contract, probably after Alabama launched 78 18,000-ton tankers, i dition to the ten it has completed a total tanker building program \$200,000,000. It now has twelve building ways, eight of them buil the last year.

• Built Pacific Bases-Turner rece has been associated with seven firms in building a dozen naval and air bases in the Pacific. Sp White & Prentis, specialists in sub and other heavy construction, de the present war has built three se drydocks at Philadelphia and No and has done harbor construction at the head of the Persian Gulf. highway supply line to Russia.

Tobacco Payott

Gianninis' alleged plan liquidate Axton-Fisher in or to realize huge profits on winds up in bitter fight.

Axton-Fisher Tobacco Co. of Lo ville is once again suffering from in nal disorders. This time the trois not lack of profits but an argum over whether the company should sold to cash in on enormous profits f huge inventories of leaf tobacco.

• Attractive Prospect-This pote profit on the leaf tobacco looks attract to the Gianninis, far-flung San F cisco bankers who control Axton-F through their big investment com Transamerica (BW – Oct.10'42. First the Gianninis were reported ing with the idea of selling the pany to one of its big rivals; non gossip is that they want to take p on the tobacco and hard-to-get ciga



Here, Mr. Deskey, industrial designer, has sketched a few impressions of the likely shape of this mechanical marvel to come. And as he says...

"What will prove of the greatest interest to most people is that the engineering behind these designs is based on principles in actual use today. But whatever the final form of the future telephone's housing...it will probably be molded of the same Durez plastics that are so effectively used in current models. The durability, impact and dielectric strength, light weight and lustrous finish of Durez phenolic molding compounds are unsurpassed for the purpose."

America gave the telephone to the world. And now you see how America's designers and engineers are laying plans to maintain our leadership. Today, among other war applications, Durez plastics are going into communications equipment for the armed services. In the postwar era... they will help the telephone industry evolve a super-system of communications. Durez Plastics & Chemicals, Inc., 548 Walck Road, North Tonawanda, N. Y.

DUREZ

PLASTICS THAT PIT THE JOB

Features of Mr. Deskey's Designs:

- 1 The conventional telephone directory is eliminated by reproducing it on micro-film and mounting the rolls on a device which allows the user to run through the directory at variable speeds, arriving at the desired number by a manual control. The names are projected through a magnifying lens and appear in an illuminated frame in the base of the telephone. Incorporating this principle, a listing of names equivalent to that of the New York City directory can be contained within the 'phone itself.
- 2 A trip-signal device for indicating messages received during the absence of the user would be incorporated in a remote terminal cabinet. This trip-signal would stem from the recording-tape device already in existence.
- 3 The push-tabs simplify the present dial system. The user simultaneously pushes down tabs with identifying letters or number symbols instead of dialing and waiting for the dial to return before dialing the next digit and repeating 6 or 7 times.
- 4 The telephone could also serve for intercommunications, employing the same principles as used in private systems today.
- 5 The conventional transmitter-receiver would be replaced by a microphone. However, an ear-phone would be provided in the event the user desired privacy.
- 6 The hand instrument would be wireless so that telephone can be carried to any point in your room.

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rolling machinery, regardless of other real assets and the intangibles such as brand names.

The series of financial operations preparatory to a possible merger or liquidation led the Gianninis into conflict with Axton-Fisher's president, Carl B. Robbins, and with the directors, several of whom are Louisville men. A court action went in favor of Transamerica, and finally Robbins and the rebellious directors quit.

• New President Named—Last week Jesse W. Tapp succeeded Robbins as president and new directors were announced. Tapp was formerly Deputy Food Administrator under Chester C. Davis and earlier had been a vice-president of the Gianninis' Bank of America. Robbins, who at one time was an economic counsel to the Bank of America, got Tapp his job with that institution. Robbins moves to New York where he becomes executive vice-president of McCann-Erickson, Inc., the advertising agency which continues to handle campaigns for Axton-Fisher's Fleetwood cigarettes.

Ironically, it was the Robbins management which built up the leaf tobacco stocks whose potentialities threw Axton-Fisher into its latest turmoil. When Mario Giannini bought control of the company through Transamerica and put Robbins in charge, the latter noted that inventories showed prominently among the many weak spots. So, while he laid plans for launching the company's new 15¢ Fleetwood and for revitalizing mentholated Spuds and the 10¢ Twenty Grand, Robbins was feverishly revising the inventories of leaf tobacco.

• Buying Better Grades-His examination of the situation told him that a

strong rise in the price of leaf tobacco

was inevitable. He sold off Axton-Fish-

er's inferior holdings as fast as he could and went overboard for better grades. By spring of this year, the company held over \$8,000,000 worth of fine leaf, enough for four and a half years opcration.

While Robbins was piling up this accummulation, events were justifying his judgment. Cigarette prices were held stationary by the ceilings that went on last fall. But the ceilings put on leaf tobacco around the first of the year were much more generous and added vastly to the value of the Axton-Fisher holdings. The discrepancy placed the company in a most painful dilemma.

• Pattern for Losing Money—Every time it rolled a cigarette, the company's profits shrank because it was putting high-value leaf into items under low ceilings. It is said that Axton-Fisher lost thousands of dollars weekly by processing its leaf instead of selling it.

Thus while enthusiastic claims were made for the sales of Fleetwood and for the ground regained by Spuds, they brought no cheer to the banker overlords. It was obvious that if they could collect their profit on the leaf tobacco, they could make more than by years of cigarette sales. Louisville, which was proud of this locally developed company, was disturbed by rumors that Axton-Fisher was going to be sold down the river. Philip Morris and American Tobacco were mentioned as possible buyers.

• Dividend Troubles—When the Gianninis began thinking of selling Axton-Fisher in 1942, the company's capital setup left much to be desired. The preferred stock was far in arrears on its cumulative dividends; so was the class A common. Both these senior issues were entitled to vote against the Gianninis' class B common, due to the fact

that more than four quarterly divides were past due. Moreover, each share class A common was entitled to dout the amount paid to class B shares liquidation.

Transamerica set about adding to holdings, paying \$40 for the convent class A and \$12 for the class B (be prices well above the market). Tun america wound up with two-thirds the 45,465 shares of class A stock of standing; its combined holding of A as B amounted to 70% of these shares.

• Clearing the Arrears—Next step in the standing to the standin

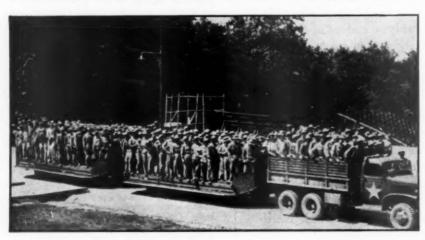
• Clearing the Arrears—Next step in the cleanup was paying off the \$26.25 lback dividends on the preferred stop on July 1 (a step costing \$357,000 Then Transamerica converted its du A into class B, share for share. Final the remaining 15,397 shares of class which is redeemable with 60 da notice on any dividend date at \$600 share plus accrued dividends, was calk (an outlay of a little less than \$1,250 000 at \$60 a share plus \$20.80 in bar dividends).

This program was designed to do by things: (1) restore sole voting control to the B stock (the Gianninis), and (1) eliminate the A shares' double take iliquidation as compared to the B. (The preferred is entitled to \$105 a shared doesn't participate above that amount in liquidation.)

• The Fight Starts—And then the trouble began. Criticism of the Ganninis came from two angles. The Louville directors didn't want this handsome home industry washed up. The dissident class A holders figured the would get as much as \$140 a share in liquidation (the stock never sold much more than half that high from 1921 through 1942) instead of the \$80.8 that was offered them under the stemption plan.

Thereupon the directors rescinde earlier action calling the class A for fil payment July 1; they overrode the Gianninis by declaring that holdes of the A stock might accept \$80.50 at they wanted to, but that it was obligatory. A class B stockholder sud to compel cashing in of all the A stock and Transamerica entered the suit backing up the stockholder. The ruling of the Kentucky Court of Appeals was to the effect that a mandatory call for redemption, once it had been issue by the directors, couldn't be made wo untary. Then Robbins and the anto Giannini directors submitted their resignations.

• Liquidation Plan Told—The Gianninis are not folk who take insubordination lightly. They accepted the resenations of Robbins and his fellow rebenations of Robbins and his fellow rebenations. The Gianninis have never admitted that they intended to liquidate Axton-Fisher. But the cat was let off of the bag by one of the Robbins directors—Charles I. Dawson—who declared in court that liquidation had been de-



STANDING ROOM ONLY

At Camp Pickett, Va., the most heavily patronized carrier is the post's swimming hole special—a fresh-air, seatless carrier that runs only between

the barracks area and Birchin Lake. A product of Ordnance Motor Repair crews, the flat trailers are made entirely of scrap and will carry 350 men. Soldiers call their ungainly but effective transport "the elephant train."

You will measure distance by your watch in the High of Flight

Il else is secondary to the fight for life which this country is waging today. In hat struggle, the airplane has changed ur former concepts of fighting a war. low will it change our thinking in mes of peace?

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AIGHT Now the airplane is teaching s to think of distance in terms of ours and minutes instead of miles. In the Age of Flight, the United tates will no longer be thought of as nearly 3000 miles across." It will be to hours wide"—or less. Chicago and Yew York will be three hours apart. No longer will your country appear you as a pattern of states extending

off into the far distance. Every section of it will be nearby your home. You will have 130 million close neighbors in the U. S. alone.

Nearly all of the world's population will be within 60 hours' reach. Remote places will become familiar sights. You will make new acquaintances and develop new understanding of people in other parts of the earth.

Today, United Mainliners, maintaining regularly scheduled passenger, mail and express flights for soldiers, sailors and civilians, are providing service four times faster than the fastest surface transportation. After Victory the airplane will be six times faster. And along with this remarkable speed it will offer flexibility, because it moves in a three-dimensional world and can fly anywhere.

When the war is ended and Victory is won, all our years of flying experience will go into a new era of greatly expanded air travel for all . . . the coming Age of Flight.

* Buy War Bonds and Stamps for Victory *

UNITED AIR TINES

THE MAIN LINE AIRWAY

7, 1943 siness Week • August 7, 1943



A Wood Alloy
is a New Engineering Material that can
be made to your order

For the post-war era, Pluswood offers you a brand new technical material, high in aesthetic value, with an exciting weight-strength ratio. A wood alloy, made by a chemico-mechanical process, it possesses structural strengths exceeding those of many metals. A non-conductor with amazing qualities of density and toughness, Pluswood can be made to your pre-determined engineering description. Thick or thin, pliable or rigid, this wood of new wonders is available in thickness ranging from 16 inches to 1/16 of an inch. and in any size up to 7 feet by 18 feet. Highly resistant to swelling, shrinking, corrosion, fire, and thermal shock—Pluswood will retain its dimensional stability so completely that only micrometer measure-

ments indicate changes.

A dependable, responsible organization stands behind Pluswood from forest through saw mills, veneer mills and factory — established by the Lullabye Furniture Corporation, since 1897 America's foremost manufacturer of juvenile furniture.

The dependable, responsible organization stands wood research.

HEAT 300 K. V. A. high frequency electrostatic generating unit—largest in the country for this purpose developed by Pluswood research. are urged to use. Write for an engineering bulletin PRESSURE Largest and most that will give you more complete information.

PRESSURE Largest and most powerful press in the plywood industry—with total pressing capacity up to 5,000,000 pounds.



WOOD Select northern birch or maple — cut from va

Impregnated into veneers by methods and tech-niques developed by Plus-wood research. RESIN

SUIOOD Incorporated Oshkosh Wis.

Companies

Associated NORTHERN HARDWOOD VENEERS, Inc., Butternut, Wisconsin LULLABYE FURNITURE CORPORATION, Stavens Point, Wisconsin ALGOMA FOREST PRODUCTS, Ltd., Bruce, Onterio, Canada cided on by the class B stockhold which meant Transamerica and Gianninis

Despite the court decision that compulsory surrender of class A \$80.80 must stand, it is said that holders have relinquished their sh Excitement has subsided since it been reported that prospects who interested in buying Axton-Fisher turned cold to the deal because of angles involved. The Gianninis see allay Louisville's misgivings by the nouncement that they are going steam ahead" with Axton-Fisher. local interests and people with jobs the plant would feel better if they we sure as to what direction that full ste ahead is going to take.

On Its Own Legs

Prosthetics industry see \$100,000,000 year in artificial limbs and braces, but 95% the casualties will be industrial

American prosthesists-makers of an ficial limbs and braces-will do a SIM 000,000 business this year and will store comfort, efficiency, and happing

to about 50,000 persons. The evolution of the artificial lim from peg leg to one of rawhide, willo and aluminum has been as remarkal as that of the streamliner from the cart. Men who have lost both legs hi down such jobs as firing furnaces a collecting bills by bicycle; one is a chi test pilot of a big airline; a one-arm man is a king of cat-skinners at wester construction camps; many men who names are familiar to you have lost of or more limbs, and employers are on

ship plates has 40 and wants more. • More Cautious Worker-Chester Haddan, president of Limb Makers America, Inc., says an amputee usual is more careful to avoid a second an dent, drinks less, is more reliable, is le likely to quit, is absent less, and is a less efficient than one who has not los a limb.

ing to prefer retrained amputees f

many jobs. One Denver firm making

Prosthetics is one business with vi tually no complaint about governmen treatment. Its employees have defent status-and 5,000 of the 8,000 employ are handicapped anyway. It holds high est priorities for raw material, many only by a temporary shortage of elast webbing, now ended. However, lim makers are getting along voluntari without much rubber and aluminum.

 Substitute for Rubber—The all-rubbe foot was virtually standard. Now a for has been built out of willow, canva etc., that uses only about 1% of rubber It is claimed to be so satisfactory that stockholder idustry may not go back to rubber. ar use of magnesium will increase, and experiments with plastics are prong. Only recently the standard artificial leg weighed around eight is. Now it's down to three or four is a better leg, a flexible, finely ined bit of craftsmanship.

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7, 1943

each military casualty resulting in nputation so far in the war, there been 20 amputations among civilchiefly industrial workers, due to urious pace of the industrial maand workers' lack of experience. military departments have bought amounts of temporary aids such as hes and braces, in anticipation; the makers have lent them advice and ed personnel and have made staal surveys. But the war may bring reat flood of amputations. There only about 5,000 among Americans e last war (500,000 among all comnt nations), and skilled military ons are daily avoiding amputations

arbed by Safety Laws-Amputations ased during the industrial boom of twenties, when there was less emis on safety than now. Then the d of workmen's compensation laws safety measures, the depression, and 40-hour week combined to reduce incidence of industrial amputations. dan credits the 40-hour week with ng limbs for many thousands of persince serious limb accidents ine greatly during the last hour or so long shift because of fatigue and ed reactions. Iedical skill is saving thousands of

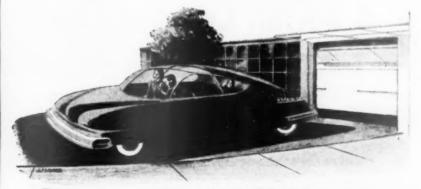
s-but longer life means many am-



putation of both legs is proving handicap to Frank Scott, truck ver of Fresno, Calif. Fitted with a fifcial limbs, he easily handles a of class ge 50-ton dump truck on the er, limb that Fe Dam project near Los Anders and the control of the project near Los Anders and the project near L ver of Fresno, Calif. Fitted with demonstrating his ability with the dumpers.

LIKE A TICKET TO A "Double Header"! A \$1,000 WAR BOND PAYS FOR: AFTER THE NOW WAR An "outdoor 20 fragmen-tation bombs for the Navy living room' wanted A new heat of destroyer signal flags ing system for A grand piano Enough gas to inflate 6250 A modern garage with lifebelts remote-con-trol doors Enough gas to inflate 37 rubber boats KEEP BUYING WAR BONDS!

It's like buying a ticket to a "double header" when you buy a War Bond today. You have to pay for the first contest. It's a tough game -the fight for freedom itself! That takes equipment-and that takes money, and plenty of it. Your War Bond money covers part of the expenses. When victory is won and the Axis is out . . .

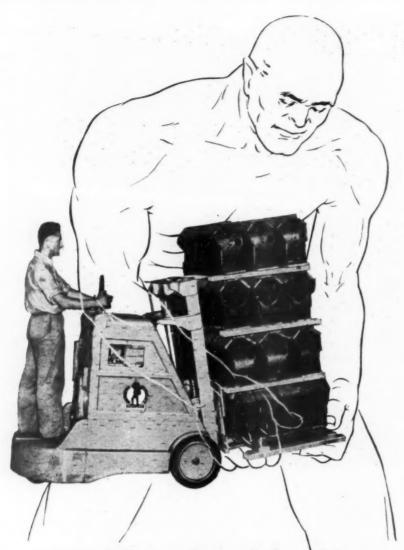


Then comes your game. This part of the double header is a walk-away for you. The laboratories are crammed with wonderful things for youand your War Bond money is waiting to buy them. And we'll be ready with some of these new things ourselves! Just wait 'til we change over from all-out war production!



BUILDERS OF ROLLING AND OVERHEAD DOORS IN STEEL AND WOOD

siness Week • August 7, 1943



A 1-Man Combat Crew

The army has enlisted Mobilift. This tough little giant is wading into the big job of keeping supplies and equipment rolling through our army warehouses.

But despite the big demand placed upon us by the army, a limited number of Mobilifts have been made available for essential wartime production...and additional machines may soon be released for other industries. Start now to make your postwar plans for improving your own inside transportation.

MOBILIFT

Moves Materials like a Giant!

VAUGHAN MOTOR COMPANY * 835 S.E. Main Street, Portland, Oregon

putations among old people. For to fit an artificial limb to a pen years old or more was rate; not common.

• Braces and Splints—It is common to amputate a limb deformed of less from birth, and to replace a useful one. As important a making, too, is the manufacts braces and splints to restore acts thousands of the crippled and other bed-ridden victims of poliomyels. There are about 1,200 firms:

There are about 1,200 firms; field; 400 specialize in making; and 800 make braces and splint are relatively small. Service is alm personalized as the physician's; the the industry is largely a cush but Cost of a limb averages about \$200 are custom-made by skilled withough such parts as springs, joint plungers are made in standard size designs by central suppliers.

• Consulted by the Surgeon-It is tomary now for the surgeon to on the prosthesist as to the best site is amputation to assure satisfactory in of the artificial limb.

Little Inch Row

Sinclair's private pipel stirs resentment of Washing oil jobbers, but work continu on another link.

While the gasoline-starved East cheering the completion of the Bigl pipeline built with \$95,000,000 of cral money (BW-Jul.24'43,pl4), clair Consolidated Oil Corp. was being in, with very little fanfare, a project all its own. It consists of a inch pipeline running from Steubem Ohio, to Baltimore, Washington, the Sinclair refinery at Marcus HPa., on the Delaware River below Padelphia.

• Solicited Orders June 16—Though line was only completed in the pasti weeks, Sinclair celebrated the eventa solicited orders through advertiseme in Washington papers starting June Thus Sinclair justified its reputation one of the smartest operators in the buness by capitalizing fully on the exament over the completion of the Inch, which was sealed with weldarcs and oratory on July 19.

Consumers have welcomed this a source of supply, but their enthusia has not been shared by Washingto oil jobbers who suddenly are faced at new and powerful competition. It independent dealers protest loudly the entrance of Sinclair upsets the prata system by which available supplicate been partitioned throughout the Washington district. They are asked

eople. F to a pen Fire; no is comm formed . replace ort int as nanufact tore acti and of oliomyel 0 firms making d splin ce is al ian's; the cash bu out \$20 5300. illed wa gs, joint dard size on-It is on to con est site for actory fit Electronic welding pipe now builds sections for "battle-wagons"



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HOW ELECTRONIC TUBES MAKE POSSIBLE THE HEAVY-DUTY WELDING OF STAINLESS STEEL AND ALUMINUM

THIS husky steel claw is a heavy-duty spot welder - a machine controlled by G-E electronic tubes which turns out superstructure sections for Uncle Sam's Navy.

Three sheets of stainless steel or aluminum, each .109 inch thick, are placed between electrodes. In a fraction of a second, electric current heats the metal at the point of contact, and fuses the sheets in permanent bond.

To perform this operation, the electronic welder exerts a pressure of 3000

pounds, requiring a current of 12,000 amperes - enough power, if applied continuously, to fly a bomber or haul a freight train.

Two kinds of electronic tubes make possible this heavy-duty resistance welding of stainless steel and aluminum. The G-E ignitron is the power tube that supplies the high current. The G-E thyratron is the precision timer which controls the passage of the current.

It is the purpose of G-E electronic tube engineers to aid any manufacturer of electronic devices in the application of tubes. General Electric, through its nation-wide distribution system, is also prepared to supply users of electronic devices with replacement tubes.

FREE BOOKLET ON ELECTRONIC TUBES

Send us the names of interested men in your plant and we will keep them informed of elec-tronic developments. For example, we would tronic developments. For example, we would like to mail without charge an illustrated book entitled "How Electronic Tubes Work," written in easy and understandable language, and showing typical electronic tubes and their applications. Address Electronics Department, General Electric, Schenectady, New York.

Tune in "THE WORLD TODAY" and hear the news direct from the men who see It happen, every evening except Sunday at 6:45 E.W.T. over CBS. On Sunday listen to "The Hour of Charm" at 18 P. M. E.W.T. over NBC.

PUTTING ELECTRONIC TUBES TO WORK FOR AMERICAN INDUSTRY

GENERAL @ ELECTRIC

authorities for relief from the Sinclair "invasion."

· Common Carrier?-Grounds for the opposition are set forth in a protest by 40 independent dealers to Lester Scott, director of the oil industry's local marketing committee, which handles the allocation of petroleum products. The same arguments were laid before the public in newspaper ads. Copy asserts that a pipeline is a common carrier and that therefore no one supplier has a right to its exclusive use. "Accordingly (says the advertisement) no supplier, or dealer, has any special advantage as to supply, by reason of pipeline facilities, large storage capacity, railroad siding fa-

cilities, etc."

Gist of the independents' stand is that Sinclair has no right to come into the tank-wagon market and capture business it has not previously enjoyed. They resent the Sinclair trucks that are flaunting themselves on Washington streets. The independents allege that these are new trucks-a charge denied by Sinclair executives who retort demurely that they

are only old trucks repainted.

• Investigation Is Welcomed-A main point made by the independents is that since the new supplies come in by pipeline, they must under present marketing rules be allocated to all dealers, including themselves. Sinclair's position during all this hullaballoo is that the company is operating strictly within the law, that it has aided materially in alleviating the painful shortage, that it welcomes a full investigation of its activities. The officials claim that their sales are allowed in the quotas assigned them for the Washington-Maryland-Virginia zone.

When in full operation, the line will deliver 12,000 bbl. daily. The project fits into a pipeline strategy that may some day bring Sinclair products and crude into eastern markets all the way from wells on the Gulf Coast.

• Flow Reversed-Begun about a year ago, the Baltimore-Washington line originally was planned as a carrier of products from the Sinclair refinery at Marcus Hook to the West. After the laying of pipe had been started, the oil crisis in the East caused Sinclair high command to reverse the planned direction of its flow. Now the line pumps from the Steubenville terminal on the Ohio River eastward. The Steubenville end is fed by barges bringing cargoes up the Ohio from producing centers along the Gulf. It carries either refined products (for Baltimore and Washington) or crude (for the Marcus Hook refinery).

Also under construction by Sincle a pipeline from East Chicago Tole The line starts at Sinclair's last (cago refinery, connecting at that p with the company's pipeline rom Coast fields. Completion of the Chicago-Toledo section is ex ected fall. This line, 220 miles long, will a ish a 700-mile tanker haul around Michigan peninsula.

• Odds and Ends-While the line Washington and Baltimore was made new material allotted in deference the eastern oil shortage, the line to? ledo is a makeshift of odds and ends is of old eight-inch pipe, picked wherever Sinclair could dig it up. Rey is low cost-about \$4,500,000. Press plans do not provide for carrying products from Toledo into the Norther where the shortage is acute, but the provokes plenty of excited speculati

in other directions.

Most obvious is the question whether the line from Toledo will extended to hook into the pipe runni from Steubenville to the East Con The gap between Steubenville and T ledo is something under 300 mile Right now it is probable that Sinch could not get pipe and pumping equ ment to bridge this gap even if it want to. But it is not too farfetched to inte that the company intends to make the connection when peace takes the rest tions off pipeline supplies.

• Sitting Pretty-When and if the hookup is made, Sinclair will have pipeline extending all the way from the lush crude wells of the Gulf Coast dire to the rich market of the Northeast, ha ing refining capacity astride the pipe East Chicago and at the Marcus Hook

terminal.

Stove Ration Due

After many false starts OPA feels program can get under way Aug. 24; small manufacturers will get the breaks.

Off-again, on-again plans for nationwide rationing of cooking and heating stoves have finally solidified to the point where OPA is pretty sure rationing can

start Aug. 24.

Same Treatment for All-Postpone ments up to now have resulted chiefly from the liquid state of WPB's production program. Last spring, WPB decided to do away with the concentration scheme which allowed only about half of the country's 245 stove manufacturers to continue production for civilian use (BW-Jun.5'43,p35). The first substitute plan was to allow any company to make stoves up to a flat percentage (probably less than 50%) of a base period. Thus large manufacturers



Sinclair Refining makes good use of the public fanfare over completion of the Big Inch pipeline (BW-Jul.24'43,p14) by taking display adds in all Washington papers to announce completion of its own line to the capital.



INGAPORE,

"To London, porter, Compartment 'A' " - you're saying as you set out on the first stage-overnight on the Sky-Sleeper to London - of your world cruise in tomorrow's "age of flight."

Your itinerary will probably include a visit to Bombay - Moscow - Buenos Aires - other far-

away places, but all easily reached by the airways, being pioneered and explored now.

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While you're aboard the air liner of the future, take a stroll to the observation deck - plexiglass covered, of course. Suspended in space above, you'll enjoy the view of cloud-crowned mountains below. Then look up at the night sky overhead for a new thrill in sight-seeing.

Yes - we'll be going places tomorrow just as we're "going places" in advanced aircraft manufacture today world leadership and progress that springs from the skill and ability of American aircraft builders working with American machine tools.

Kearney & Trecker Corporation looks ahead with confidence in the continuing development of the

aircraft industry and the increasing importance of the machine tools that help to make such progress possible.





KEARNEY & TRECKER CORPORATION

HILWAUKEE 14, WISCONSIN

"Buy Victory with War Bonds"

Milwaukee MACHINE

(who had been frozen out by concentration) would have received the same treatment as small.

This policy wasn't too well received. The labor division of WPB and the War Manpower Commission reportedly objected because some of the large manufacturers were located in tight labor areas. The Smaller War Plants Corp. felt that the little fellows weren't getting a square deal.

ting a square deal.

• Some May Go 100%—WPB finally has worked out a scheme whereby small manufacturers—those with normal annual gross sales of less than \$2,000,000—will be allowed to produce up to 100% of the base period, the last half of 1940 and the first half of 1941. Small makers located in very tight labor markets (Group I) will be frozen out, however. But since the little fellows won't be able to meet the full program, some larger producers will be allowed in after consultation with manpower authorities.

Present estimates are that a total of around 4,300,000 stoves will be available for civilian use from April, 1943, through March, 1944. Roughly, this is the breakdown: 1,280,000 coal and wood heating stoves, 500,000 gas heating stoves, 160,000 oil heaters, 600,000 gas cooking ranges, 500,000 coal and wood cooking ranges, 600,000 kerosene and gasoline cook stoves, 40,000 combination ranges, 150,000 gas hot plates, 300,000 portable ovens, 70,000 to 80,000 laundry stoves.

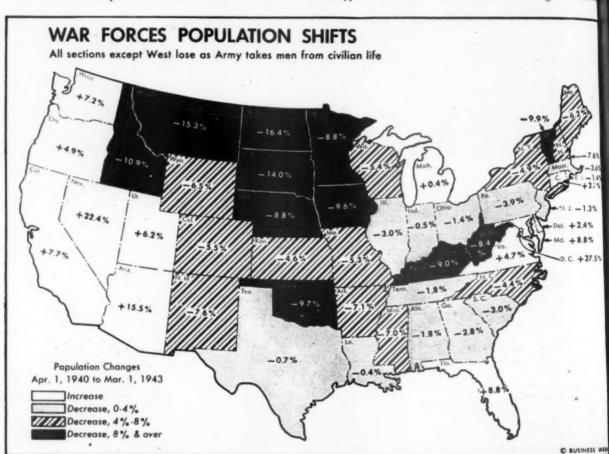
• Exceptions Listed—Some types—water heaters, central heating equipment, portable gasoline camp cook stoves, some types of laundry stoves and airtight sheet-metal wood heaters, gas hot plates, and charcoal and alcohol burning stoves—will not be rationed. All equipment for industrial, commercial, agricultural, and institutional use is exempt.

• Undecided on Total-These figures contrast with sales of all types of stoves

totaling 8,600,000 in 1941. WPB OPA are aware that, though the paper program includes some substantial creases over original estimates, it be necessary to up quotas still furth A secondary object of rationing is to a better idea of civilian needs, to quotas to fit them.

Electric stoves are not included the rationing program because the have been under a WPB production for so long that there aren't enough in dealers' and manufacturers' intories to go half way round. There possibility, however, that if cind needs seem to warrant it, WPB ropen up and allow limited product of electric ranges and heaters.

• Another Exempt Type—Liken WPB's much-touted ceramic sto (BW—Jun.26'43,p62) aren't included rationing because production is on just now getting under way. Chan are, however, that—being made alm



The civilian population of the United States decreased about 3,100,000 or 2.4% between the last official census of Apr. 1, 1940, and the registration for War Ration Book II on Mar. 1, 1943. The increase in the size of our armed forces far outstripped the normal population increment over the three-year period. The marked re-

gional variation in gains and losses is attributable principally to the shifting of civilian population to areas of greatest war activity. The chief such gains have occurred in Connecticut, Delaware, Maryland, Michigan, and the states on and near the Pacific Coast. Increases in Virginia and the District of Columbia, which scored the top gain of 27.5%, stem from the upsurg, in government personnel. California had the greatest numerical gain—more than half a million people. Rural states, mostly in the Midwest, experienced the largest losses—North Dakota was down 16.4%, biggest percentage loss of all—but New York lost the most people, over 650,000.

1. WPB h he pre ub tanta lates, it still fur ning is to needs, included ecause ocluction enough trurs' in There' if civi WPB product - Liken mic sh include on is o . Chan ade alm for War-Hungry Machines MERICA'S busy production lines have an insatiable appetite +27.5% for raw materials-of which metals are the most essential. So the nation's mines must "feed" the nation's machines. To keep abreast of this demand, the mining industry relies extensively on Cleveland Rock Drills. For Cleveland Rock Drills have proved in 35 years of peacetime performance that they are made to order for the toughest wartime jobs. Speed plus stamina, advanced design and economical operation are well-known features of all Cleveland drills. An experienced Cleveland engineer will gladly tell you how CLEVELAND our equipment for mining and construction work will help ROCK DRILL EQUIPMENT NESS WIR solve your drilling problems. includes: upsurge Sinkers, drifters, stopers BUY U.S. WAR BONDS AND STAMPS lumbo drill rigs, paving breakers, clay diggers, tampers, wagon drills THE CLEVELAND ROCK DRILL CO. Branch Offices in All Principal Cittee and Mining Contess

Business Week • August 7, 1943

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A new war tool from a veteran toolmaker



Disston, with more than a century of experience in fine toolmaking, is helping to solve many of these wartime problems.

One such important job was the manufacture of a special file—for work on a troublesome piece of Army Ordnance. The specifications were most stringent. The double bevel on the edge of the tool had to be cut with a file surface of 98 teeth to the inch, and the edge formed by both bevels had to be held to a perfectly straight line. Furthermore, special dies had to be made to hold the file to the correct radius during the heat treating operation.

Disston succeeded in producing a highly satisfactory file under these difficult requirements. And it is the same skill and care that provide you with better performance and longer life in such standard tools as Disston files and rasps, wood and metal cutting saws, hack saw blades, tool bits and machine knives.

Conserve vital man-minutes in your plant with Disston quality tools—and with free Conservation Control instruction cards on tool use and care. For complete information write Henry Disston & Sons, Inc., 828 Tacony, Philadelphia 35, Pa., U. S. A.



This special file is made with the fine craftsmanship and extraordinary skill that are traditional at Disston... The same high standards of quality found in such other Disston Products as Beet Shredding Knives; Carboloy-fitted Saws for milling the fins on forged aluminum alloy cylinder heads; Gasoline-driven Chain Saws for the U.S. Armed Forces; and immense Inserted Tooth Saws for cutting alloy steels in the manufacture of tanks and marine equipment.

Conserve Man-Minutes

and help win the war •

PROTESTS CLICK

A wave of indignation has force modification of Vermont's lique control program after only eleve days of operation. The new consumer rationing system, which went into effect July 12, limited sales to one quart a week per consumer and provided, with OPA permission, that state liquor store clerks must stamp the date of each purchase on the inside back cover of the customer's War Ration Book No. 2 to insure compliance.

Vermonters naturally objected to the rationing, much as resident of other states in which quarta-week systems have been instituted (BW-Jun.26'43,p80). But their principal gripe was the use of their ration books, on the ground that they didn't want a record of family liquor buying where the butcher or grocer could so easily see it and start gossip.

Protest reached such a peak that State Liquor Commissioner Park C. Beede announced on July 23 that use of ration books would be discontinued as soon as liquor registration cards could be prepared and distributed.

entirely of noncritical materials-the will be exempt from rationing who they do go on the market.

The rationing program will supersels the present rationing of coal and of heaters in the 32 states rationed on ful oil. OPA ration boards, in areas when oil supplies are tight, will get low quota on oil burning equipment. Likewise, in some areas, boards will not be allowed to issue certificates entitling consument to buy gas heating equipment except for essential replacements.

HARVEST CORRECTION

In a recent report on the wheat havest in Oklahoma (BW-Jul.3'43,pl4, Business Week said, "Shortage of havest machinery this year proved more theoretical than actual. In the yard of the J. I. Case dealer at Enid, at the height of the harvest, stood a shiny new combine, prominently marked 'For Sale.'"

Paul M. Mullikan, executive secretary of the National Retail Farm Equipment Association, and W. L. Clark, vice president of the J. I. Case Co. at Racine. Wis., both now advise that this was a regrettable case of mistaken identity, the company's Enid dealer has had not combines for sale. Both add that, as the harvest moves north, they are receiving reports of wide shortages of machines to handle it.

The self-sealing gas tank that <u>was</u> and <u>wasn't</u>

THESE SELF-SEALING fuel tanks for aircraft were made of a secret rubber composition.

has force nt's lique nly eleve new con n, which 2, limiter per cu rith OPA luor ston te of each ack cover r Ration mpliance objected resident quart-a nstituted But their e of their and that of famere the so easily eak that er Park July 23 ould be uor regrepared

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When hit and pierced by a bullet, the composition quickly flowed together and scaled the holes.

This was a major triumph of science. "But now," said the plane designers of the Army Air Forces, "let's put metal around these self-scaling gas tanks, just as they'll be in the wings of a combat plane."

And when they did, a strange condition arose. The tanks weren't always self-sealing! Here's what was happening.

"Flowering" Metal

When a bullet passed through the metal surrounding the tanks, it caused the metal to "flower out" on the inside. The metal, therefore, "flowered" into the rubber gas tank. The jagged pieces of the "flower" acted as hooks and pre-

vented the rubber from flowing together and sealing the holes in the tank.

To remedy this trouble and give pilot and plane a better fighting chance, the Army Air Forces had to find a material to place between the metal and the tank where the aircraft design required it.

This material had to be enormously strong, extremely light, and, unlike any metal, it must not "flower out" when hit by bullets.

Glass Helps Do It

The search was a long and exhaustive one. The Army Air Forces finally ended up, not with *one* material, but *two* . . . a new synthetic plastic rein-

forced with a new basic material of glass!

This glass is different from the glass in windows. It is glass in the form of cloth.

This glass cloth and

plastic combination resulted in an extraordinary new type of material. It did not "flower out." Was extremely light; in fact, for its weight, it was many times stronger than steel.

Glass textiles are one form of Fiberglas,* a new basic material proved and developed for many uses a few years before the present war began.

In all branches of the armed services, you find examples like this, where determined engineers are using the newest ideas, most advanced materials and methods to build better fighting equipment than our foes.

That is why every one of us at Fiberglas is doing his bit to help 24-hour production—so that the Army and Navy can depend on Fiberglas for steadily increased production to meet their many requirements. Owens-Corning Fiberglas Corporation, Toledo, O. Fiberglas Canada, Ltd., Oshawa, Ont.



FIBERGLAS

*T. M. Reg. U.S. Pat. Off.

Business Week . August 7, 1943

WAR BUSINESS CHECKLIST

A digest of new federal rules and regulations affecting priorities and allocations, price control, and transportation.

Glass Containers

Emergency demands for wide-mouth glass containers from commercial food packers and others have led to a revised OPA ruling to cover cost of production by manufacturers new in the field. Highcost producers are enabled to recover their total costs of production and sales up to 15% over the dollar-and-cents ceilings set by Regulation 382. Factory costs and freight, but not sales costs, may be recovered up to any amount where total costs exceed established ceilings by 15%. Manufacturers are required to file applications showing costs, which, if in excess of ceilings, may not be passed on to the ultimate consumer of packaged goods.

To overcome the acute shortage of glass containers in the West, the ruling also establishes a method by which eastern manufacturers may recover actual freight in excess of the maximum usually absorbed. (Amendment 2, Regulation 382.)

Tallow and Grease

Up to 30% of tallow and grease output after Aug. 1, 1943; will be reserved for essential war industry. War industries must apply for authorization for September delivcries by Aug. 15. Soap manufacturers, the largest users, are not permitted to apply but will keep up current production of soap by using crude soybean, palm, and coconut oils recently released for this purpose.

Inventories of tallow and grease users will be held to a 45 days' supply, producers' and dealers' inventories to a 15 days' supply. (Food Distribution Order 67.)

Trucks, Buses, and Trailers

All new trucks, buses, and commercial trailers, on which limited production was recently resumed, have been placed under price control by an order that establishes uniform provisions for all sales of secondhand machines which were sold on a delivered or installed basis when new.

Trucks, buses, and trailers manufactured after Aug. 12, 1943, are covered at any level, as Appendix B items—meaning that their prices reflect Mar. 31, 1942, levels generally. Vehicles for military use are excluded. Cars and trucks classified as material handling equipment remain covered by Appendix A, which provides formula prices at October, 1941, levels. Trucks in the ration stockpile will continue under GMPR, at prices almost equivalent to those set for new vehicles under the new amendment. (Amendment 96, Regulation 136.)

Cotton Linters

Bedding and upholstering industries will soon have available about 25% of the sup-ply of cotton linters as a result of an amended WPB order limiting the purchase of cotton linters and hull fiber for use in the manufacture of chemical cotton pulp.

Previously, all the linters production of the cottonseed oil mills was delivered to Commodity Credit Corp. for use in chemical cotton pulp to manufacture explosives. Hereafter, deliveries to CCC will be as directed by WPB, whose present directive calls for 75% of the output for chemical and 25% for civilian uses. The existing stockpile of raw cotton linters is sufficient to enable WPB to take this action, which will allot chemical linters to each mill on a prorata basis. (Order M-12, as amended.)

Farm Machinery

Manufacturers of farm machinery and equipment are authorized by the War Food Administration to distribute up to 40%

of their production, in the year began July 1, 1943, of items rationed under Order L-257, provided that they have filled WFA's quotas of items rationed last year's program (Order L 170) action, a step toward WFA sim system for distributing machinery soon be followed by a permanent gram. (Supplementary Order 5, Food duction Order 3.)

Farm equipment retailer, may, July 31, pass on to consumers their transportation charges instead of an combined freight charges, so that de won't have to incur losses on ships of less-than-carload lots. (Amendmen Regulation 133.)

Footwear

Increased output of footwear has authorized up to 25% for boys', michildren's, and infants' shoes, and a safety shoes, and up to 15% for a work shoes, according to a WPB and order designed to meet the great des for these items. An additional increase



Allis-Chalmers Mfg. Co. La Porte, Ind. American Car & Foundry Berwick, Pa. American Cyanamid Chemical Corp. Little Rock, Ark. Apco-Mossberg Co. Attleboro, Mass. Atlas Imperial Diesel Engine Co. Mattoon, Ill. W. A. Baum Co., Inc. New York, N. Y. The Bell Machine Co. Oshkosh, Wis. Belle City Malleable Iron Racine, Wis. G. H. Bishop Co. Chicago, Ill. Buckeye Cotton Oil Co. Memphis, Tenn. Camillus Cutlery Co. Camillus, N. Y. Century Boat Co. Manistee, Mich. Chicago Wheel & Mfg. Co. Chicago, Ill. Copperweld Steel Co. Glassport, Pa. Dewey & Almy Chemical Co. Cambridge, Mass.

Eitel McCullough, Inc. Salt Lake City, Utah Fansteel Metallurgical Corp. North Chicago, Ill. S. W. Farber, Inc. Brooklyn, N. Y. Marshall Field & Co. Spray, N. C. Ford Motor Co. Richmond, Calif. Fox Paper Co. Lockland, Ohio Gates Rubber Co. Denver, Colo. General Machine & Mfg. Co. Berwick, Pa. Indian Motorcycle Co. Springfield, Mass. International Minerals Chemical Corp. Carlsbad, N. M. Jarecki Machine & Tool Co. Grand Rapids, Mich. Charles Lennig & Co. Philadelphia, Pa. Link Belt Co. Chicago, Ill. McCormick & Co., Inc Baltimore, Md. Modine Mfg. Co. Racine, Wis. Murphy Elevator Co. Louisville, Ky.

National Standard Co. Worcester, Mass. Nestle's Milk Products, Is Sunbury, Ohio New Idria Quicksilver M ing Co. Idria, Calif. The Newark Stove Co. Newark, Ohio Seymour Products Co. Seymour, Conn. Simmons Co. Elizabeth, N. J. Standard Wholesale Pho phate & Acid Works. In Baltimore, Md. Steel Products Co., Inc. Savannah, Ga. Tantalum Defense Corp. North Chicago, Ill. Trackson Co. Milwaukee, Union Bleachery Greenville, S. United States Spring Bumper Co. Vernon, Calif. John R. Wald Co. Milton, Pa. Waterbury Clock Co. Waterbury, Conn.

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West Michigan Foundry Co. Muskegon, Mich. (Names of winners of the Army-Navy commission awards for excellence in production announced prior to this new list will be found in previous issues of Business Week.)

Wis.

HOTO COURTESY THE HOSDREG CO., INC., HUNTINGTON, INDIANA

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SHE'S GINNY CLOSE—21 years old—95 pounds—married—member of the 10% Club—she's a WOW*. In fact she's the smallest multiple spindle automatic lathe operator in the world.

But she holds a more important record— 2286 shells produced in 8 hours with the help of her 8-spindle Conomatic. She does her own tool setting, loads the machine with stock, beats the boys at their own game, then takes care of her six room house, and feeds 100 chickens and a farmer husband.

The Hosdreg Company is pretty proud of Ginny, with her cheerful attitude and happy smile—and also proud of their Conomatics, with their easy operating features and outstanding production capabilities. Get a WOW like Ginny and a Conomatic on the job, and you're bound to break more than one record!

*Woman Ordnance Worker

CONE Automatic Machine Company, Inc., Windsor, Vermont

Business Week . August 7, 1943



Target for tonight — Berlin! And somewhere in England huge tractor-trailers roar toward secret airfields, with two-ton block busters. Now speeding over smooth highways, next crawling along rough country terrain — but always kept under safe, complete control by Warner Electric Brakes. And soon giant wheels on huge cargo planes and many other types of power equipment will be braked electrically. Warner Electric Brakes on essential motor transports and artillery pieces are proving their dependability on the battlefields of the world — from the ice-bound regions of Iceland to the burning deserts of Africa — and after the war they will be available for a wide range of new power braking applications.

Warner Electric Brake Mfg. Co. Beloit, Wisconsin



CONTROLLED SPLIT-SECOND STOPPING POWER FOR ANY PURPOSE

48 • War Business Checklist

production may be possible by shifts used quotas for men's and women's wear to quotas for work shies and dren's and infants' shoes. (Cider) as amended.)

Specialty Foods and Beven

A revised method has been estal for adjusting downward prices of a specialty foods and beverages when do in their formulas increase processors in To avoid hardship cases and save paper changes in formulas will not need changes in maximum prices if the new is between 95% and 100% of the total rent ingredient cost of the original for For cuts in cost below 95%, the price be decreased by 5% of the original mum with each 5% decrease in cost of new formula. (Amendment 6, Supple tary Regulation 14.)

Fruits and Berries

Formulas by which canners will est maximum prices for their 1943 pad fruits, berries, fruit cocktail, fruit is and nectars have been announced by a in an amendment listing specific for red sour cherries, in dollars and a per dozen cans, on a regional basi. Formulas for fruits and berries are is

Formulas for fruits and berries are ideal. Prices are determined by deals from the packer's maximum price per do for the 1942 pack, f.o.b. factory, of same variety, style grade, and containers as computed under MPR 185, adding the 1943 raw fruit cost per dozen tainers as computed under MPR 185, adding the 1943 raw fruit cost per dozen tainers, within the limits of this alation. (Raw fruit cost is obtained by a ing the weighted average paid to the min 1943, based on not less than the 195% of the canner's purchases, by the docontainer yield per ton, or other unit in 1942.)

In certain states, a specified factor added to cover labor costs.

When application of the regulation sults in increased prices, canners must promal notification of this fact to purchat on a form prescribed by OPA. (Amenent 11, Regulation 306.)

Graphite

To conserve the available supply graphite, the manufacture of graphite or bles has been placed under control. Of tain standard sizes, as well as some special sizes, may no longer be made, and no mar facturer may produce any size of specirucible which he has not previously a duced. (Supplementary Conservation Ord M-61-a.)

Paper Articles

To conserve pulp, paper, and pape board, restrictions on the manufacture articles made of these materials have be tightened considerably in relation to 19 production. On such articles as balloons a camouflage paper for military use, probation is unlimited. Items for civilian twhich are unrestricted because of the essentiality include abrasive paper, shoes. It is shoe parts. Other important paper articles are on which full 1942 outputs permitted are artificial leather.

Business Week • August 7, 194

This Is America's Most Powerful Weapon



by shifts women's shows and (Coder)

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From early pioneer days when the neighbors all pitched in to help the new home-

eader raise the log walls of his home, a int of cooperation that is typically merican has helped this country raise e good, four-sided walls of Freedom. Now, in the midst of the world struggle defense of Freedom, we see more clearly an ever the tangible evidence of that operative spirit.

operative spirit.
This is the story of Bausch & Lomb...
It it is also the story of all American
dustry...a reflection of the spirit of
ose who fight side by side...and a
aunch, shoulder-to-the-wheel challenge

to those who said Americans are weak.

Because Bausch & Lomb alone was capable of producing so many of the precision optical instruments needed by the armed forces, war brought the need for a tremendous and rapid expansion of its facilities.

How was that need met?

You see the answer in the chart above ... a chart that tells of the wholehearted cooperation of thousands of other manufacturers. Today, there are 80 sub-contractors, many of them small producers, cooperating with Bausch & Lomb in the task of fulfilling its war contracts. They make assemblies, sub-assemblies and parts for Bausch & Lomb war instruments. There are more than 4,000 sup-

pliers who are regularly delivering materials to Bausch & Lomb . . . steel, brass, sand, rubber, paper, diamonds . . . hundreds upon hundreds of different rawmaterials that go into the optical instruments of war. Sub-contracts, supplies and taxes account for more than 60% of the total B&L war contract dollar.

In this chart you see a blueprint of industrial cooperation . . . a blueprint of America's most powerful weapon.

BAUSCH & LOMB
OPTICAL CO ROCHUSTER, N. Y.

AMERICAN SCIENTIFIC INSTITUTION PRODUCING OFFICAL GLASS AND INSTRUMENTS FOR MILITARY USE, EDUCATION, RESEARCH, INDUSTRY AND EYESIGHT CORRECTION

A A Ready to Work Shoulder to Shoulder With Your Organization... WITHOUT LOST EFFORT ou SUB-CONTI



 As a source for Sub-Contract work • As a source for Sub-Contract work to supplement your own war production you'll find Craft offers you all the advantages you are looking for: Specialized experience and trained craftsmen . . . on engineering department that's experity manused . . a modern plant and streamlined facilities. Equally importent, we offer you capable management and the dovertailing of our efforts with yours, so that we function as a department of your own business.

METAL FABRICATION SERVICES AVAILABLE SPINNING

STAMPING PICKLING

WELDING ANNEALING DEEP DRAWING

SHEET METAL

MANUFACTURING CO. 1512 No. Frement St., Chi Stainless Steel Specialists





have helped industry "Keep 'em rolling" for ave half a century, with millions of dependable ster wheels and axles for every use: tractors, trailer, road machinery, air compressors, agricultural imple ments, welders, etc. If you need any kind of wheel for your product,

Write for Illustrated Bullatin No. 250



toilet tissue; household and industrial products in the same category cover such items as facial tissues and paper dishes. After Aug. 1, 1943, products in a fourth class are cut to 80% of 1942 production; these include carpets, games, and toys. An amendment governing prohibited articles permits their manufacture until Oct. 31 if the manufacturer or converter has materials in hand acquired expressly for the purpose. For the final quarter of 1943, production of items not specifically covered is limited to 70% of the paper tonnage used in producing the same items in the corresponding 1942 quarter. (Order M-241-a, as amended.)

Camelback Prices

Since synthetic rubber can now be used in the production of camelback, manufacturers' ceilings for that product are extended to cover grades made of synthetic rubber, at the same levels, grade for grade, as those for camelback made of crude or reclaimed rubber. (Amendment 4, Regulation 131.)

Abrasives

Aug. 10, 1943, instead of Aug. 15, 15 the new deadline for applications for authorization to deliver or use manufactured crude abrasives for the September-October period. (Order M-319, as amended.)

Bread Deliveries

Four deliveries of bread and other perishable bakery products may be made weekly, instead of three, by motor vehicles in the eastern gasoline shortage area, provided such delivery is exclusively to retail customers and provided it is not made on more than two consecutive days over a single route. This new ruling is expected primarily to facilitate delivery on the peak days of Saturday and Monday, (General Permit ODT-17-28.)

Heating Equipment

Distribution of extended surface heating equipment is restricted to "Approved Orders"-those which specify a delivery date, are rated AA-5 or better, or which are for repair parts. This WPB revision of Order L-107 cuts the number of sizes and types of heating equipment. This includes unit heaters, ventilators, blast and special heating coils, and convectors. Gas or other direct fired unit heaters are not covered. (Order L-107, as amended.)

Cottonseed Prices

In a move to stimulate greater produc-tion of cottonseed oil, meal, and linters, for war purposes, an increase of \$6.00 per ton over last year's support prices has been made, according to a War Food Administration announcement. The new prices are \$55 per ton, f.o.b. shipping point in Oklahoma, Texas, and New Mexico, and \$56 per ton, f.o.b. shipping point in all other producing states. The prices will be supported by Commodity Credit Corp.

Navy Uniforms

Maximum prices for the new gray sum-mer work uniforms for Naval officers (BW—May8'43,p29) have been set for

manufacturers, wholesalers, and 18 ranging down from \$19.95 to \$15.38 tail and from \$13.72 to \$10.25 at who (Amendment 2, Regulation 35.)

Denaturants

Four denaturants, in addition to a isobutyl Ketone, have been placed allocation control to assure a suppl antifreeze compounds next winter, denaturants that come under the order St-115, Dehydrol-O, G. C.-78, and acch (Order M-340.)

Beef Reserves

The amount of steer and heifer meeting Army specifications which & terers operating under federal inspection required to set aside for the armed in has been reduced from 45% to 30% of slaughterers' weekly production, for the ended July 31, and to 40% for future w This 40% represents about 18% of total commercial beef production. Del of this reserve must be in the form of ca beef; packers are urged to supply the with boneless frozen beef. (Amendmen Food Distribution Order 28.2.)

Luggage

While general restrictions on lun remain the same (BW-May8'43,p70). use of iron and steel for valances, bind and corners on foot lockers and for ha bracket assemblies in men's wardrobe gage is permitted by a WPB amenda physicians' bags from 16 to 18 ind (Amendment 1, Order L-284.)

Kapok

As a result of the diminishing supply kapok, WPB has restricted its use to military items: life vests, life jackets collars, life saving cushions, and insulat padding for aircraft. The only other permitted are those authorized on Fe WPB 1076; sales of kapok are allowed wh they are allocated on Form 2562. (On M-85, as amended.)

Other Priority Actions

WPB Order L-312 requires process of industrial wiping cloths to set and 25% of their entire poundage production for military use. . . A preference may of AA-2 has been assigned to repair short to permit them to buy as much welfar rod as they bought during the prevou month, up to \$100 worth; any shop, hor ever, may buy \$15 worth in any month (Direction 10, CMP Regulation 5.)

Other Price Actions

The provision that raw material costs in paperboard products must be computed a levels no higher than Mar. 31, 1943 mm mums has been extended to Oct. 1, 1943 by Amendment 5, Regulation 187. . . A maximum price of \$22 a ton for pilchard in California ports of entry has been estable lished, and a price of 2¢ a pound for pi chards when sold for bait, from Aug. 1, 1945 through Feb. 5, 1944, by Amendment ? Regulation 418.

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7, 1943



THE WAR-AND BUSINESS ABROAD

War Calculations Shift

Possibilities of political upheavals within Axis nations alter thinking on war's end. Japan, sorely tried economically, might possibly crack—but not even Italy is out yet.

Mile-by-mile battles for artillery-torn soil in Sicily and Russia fade into the background when whole nations teeter in the balance between war and peace.

It is easier, after the fall of Mussolini, to weave the pattern of European disintegration; to depict a falling-away of one or another Balkan state; to envisage the wrathful rising of oppressed peoples in Norway, France, or the Low Countries

 Way Paved for Revolt—By subtracting the economic price each satellite or occupied nation has paid to the Reich, Germany can be denuded, left ripe for revolt against Nazism, for anarchy, or both

But the thinking is hasty. Italy is not out of the war; her territory is not yet a jumping-off point for Allied armies and bombing squadrons. All that remains is the assurance that the war has been shortened, that similar bloodless, or nearly bloodless, victories may speed the war's end. Predictions that Germany will be licked in mid-1944 are being cautiously pared to permit leeway for dramatic and unpredictable political maneuvers.

• Paradox of Timing—For American business the trend has meaning. The longer the war in Europe (BW—Mar. 20'43,p13), the shorter will be the war in the Far East; the shorter the European phase, the longer it will take to lick Japan. This is because mounting Allied power will reach its peak next year and not before, and a swing to the Pacifie before then would mean time added to the Far Eastern timetable.

Yet assurance that Japan will be the focus of attack sooner than expected increases the need for gaining perspective on the potentials of that foe.

• Geography Japan's Ace—A wealthy industrial nation is likely to judge other nations, and particularly its enemies, by its own standards. This was a mistake that was made in estimating German strength in 1939; it is one that could easily be made now or next year in regard to Japan. Japan is no match for the United States in even battle, but the odds are not even geographically; Japan's economy has weak spots, but these are not yet fatal or uncorrectable.

Japan's investment in the China Incident has been estimated at roughly 30% of her annual military output,

manpower losses omitted. Balancing Japanese war expenditures and estimates of forces and equipment used in China makes it clear that the period 1937-41 was one of military stockpiling for Japan.

• Two Key Industries—Only hazardous estimates of current Japanese output of arms, planes, ships, and other munitions are available, but by analyzing what is known about two important factors in the economy—shipbuilding and steel—it is possible to gage the position of the Japanese war effort, based primarily on these industries.

In October, 1940, Japan's merchant marine included 4,214 vessels aside from sail-driven craft above 20 tons, a total of 5,702,641 gross tons. In addition, she had 16,859 sailing vessels with a total of 1,070,718 gross tons—70% of the tonnage and 90% of the number above 20 but under 100 gross tons. Only a few topped 300 tons.

• Production and Losses—During the 'thirties, Japan expanded shipbuilding capacity. The known output of 469,000

tons in 1937 is said to have jumped 700,000 tons last year. The objects probably not reached, was 1,0000 tons a year. Annual losses through a cident and age are calculated to a around 200,000 tons a year.

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Japan's investment in new shipbuling facilities increased from just beh 1,000,000 yen in 1937 to better the 3,000,000 yen in 1941. Allowing hinflation, the annual investment menthan doubled in the three-year period Allowing for difficulties in producing enough steel for further tonnage in creases, and accepting reports the greater emphasis is being placed on the construction of 100, 150, and 250 ground ton wooden vessels, an estimate of current output of 700,000 tons is still generous.

• Sinkings a Big Factor—On the debiside are Allied sinkings. Secretary of the Navy Frank Knox put Japanes losses to Mar. 1, 1943, at 1,857,00 gross tons and, calulating replacement and salvage, figured merchant tonnage at 14% below November, 1941. Since then, the Allied toll of Japanese ship has risen.

Another debit item is the change which has taken place in Japanese ship requirements for home industry—entirely aside from the expanded needs of the new empire. Before the war, Japan's industry and transport depended on imported scrap iron and gasoline. Machinery to the tune of over \$30,000,000 a year was imported.

 Larger Tonnage Required—Now Japan must dig and import iron ore; gasoline must be produced from crude oil on



PLOESTI PLASTERED

Despite growing feeling that oil supply is not the weakest spot in the Axis armor, 175 Allied planes have dropped 300 tons of bombs on Rumania's Ploesti oil fields. Once the chief

source of the Reich's high-octant fuels, it now appears to be far less than a 90% supplier—especially since expansions in other occupied lands. A previous Ploesti raid missed fire because of expert camouflage, but this one was on the target.

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Business Week • August 7, 1943

hearby Sakhalin or brought by ship from the Indies; coal must be imported to process the iron ore. These changed imports require more tonnage.

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At the other end of the line, however, apan has adapted her merchant fleet of the exigencies of battle, using heavy hips for long ocean hauls, keeping sailing and fishing vessels inshore and for huttle service to the front from protected bases like Rabaul. Allied tolls are smaller in tons per ship in the battle

zones, and the ships themselves are harder to hit.

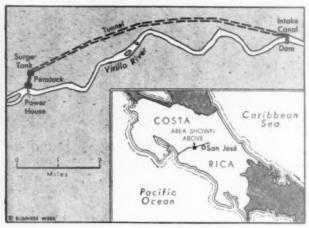
• Scrap Slows Steel—In steel, Japan's position is unenviable but not disastrous. Output is estimated to be around 9,000,000 tons a year—about one-tenth U. 3. production. But Japan's capacity was based largely on imported scrap, and raw materials have not been arriving on schedule. Despite stockpiling and redoubled efforts to bring in the scrap, Japan's steel output is below require-

ments. Measures are being taken in an effort to remedy this situation.

Throughout the empire, Premier Hideki Tojo claims:

"Coal, iron ore, and lime are found to such an extent that they are rotting away. The construction of blast furnaces in these areas and the manufacture of pig iron in these places will greatly supplement transportation power. Because they can be constructed in three months, at the present time these small blast furnaces are being





COSTA RICA POWER

Costa Rica has no grandiose dreams of a Tennessee Valley Authority-like development of its rich valleys, but war or no war its power facilities are being expanded with the aid of mat-



terials and equipment from the U.S.

Just back from a tour of Central America, an editor of McGraw-Hill's Engineering News-Record reports that a new power project nearing completion will add 10,000 kw. to the nation's existing 18,000-kw. capacity. The job is being done by Compania Nacional de Fuerza y Luz of San José, C. R., a subsidiary of American and Foreign Power Co., of New York City.

The project is the fourth development on the Virilla River and is located 25 miles east of San José. Five miles above the new site is a 3,000-kw. project, three miles higher is a 4,000-kw. plant, and a third development three miles higher up stream produces 3,000-kw. power.

Begun in 1941, the latest and largest project involves the construction of a dam (upper left), a 240-ft. intake flume to an 8,700-ft. tunnel, a surgetank, two five-foot penstocks 800 ft. long, and a powerhouse for four generators and turbines (map, upper right).

The eight-foot tunnel (lower left) was cut through solid rock in 16 months by 180 native workmen. Within six months, it will be lined with concrete and ready for use.

Turbines and generators for 5,000-kw. output have arrived from the U.S.

and are now being installed, but additional equipment may have to await the end of the war. Cement and steel came from the U. S.; but material shortages resulted in such oddities as the high-voltage poles (lower right) being built from old railroad rails.



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SUDDEN ORDERS to transfer an entire division of troops had reached a Midwestern Army camp. The movement was to begin within three days, on a schedule that meant loading of men and equipment at all hours of the day and night.

TO FACILITATE NIGHT LOADING at the railroad sidings, additional floodlighting was needed. A phone call to GRAYBAR by the transportation officer asked for immediate delivery of the floodlights, along with poles, pole anchors, guy wire, and the like.

WITHOUT WAITING for written confirmation, GRAYBAR started action to round up the equipment. Poles were rushed from the nearest stock point by truck, though it meant getting special permits from two State Highway Departments. Other equipment was supplied from warehouses and other nearby sources. All arrived in time to light the loading area when the "zero hour" for troop movement came.

WAR PLANTS, as well as the military services, get fast action from GRAYBAR when sudden requirements arise. This applies not only to lighting and other plant equipment but to the electrical materials being built into planes, ships and ordnance equipment. Are you taking full advantage of GRAYBAR'S Procurement Advisors?



constructed in increasing numbers and adding greatly to the manufacture steel."

• Drain on Manpower—Thus the signing of a modern war without sufficient industrial capacity is forcing Japan revert to outworn technique. To the furnaces producing from one to five the of iron a day. One modern blast in acce in Youngstown can oppose several hundred of these primitive to In addition, such enterprises, although they save ship space, are a further day on Japanese manpower, already in the supply (BW—Jun.26'43,p88).

These key factors in the economy not yet in a serious deficit position. It may they be expected to pull the la anese war machine to a halt by the selves. Perhaps not until Allied plan fulfill President Roosevelt's promise bomb Japan proper from the cast, we north, and south will Japan be in serious spot, and even then, the tracious hold on outlying territories we not be easily broken by force.

• Chance of a Breakup—But just as h European war may wind up in a chaet jumble of broken partnerships and a legiances, so Japan—always a quick los and a faster compromiser—may not ha a showdown of steel and fire. A wed war which has unleashed the producta forces of the United Nations in h battle against Fascism may yet end a an anticlimactic trading match betwee diplomats and politicians.

Cement for Chile

Delivery of two Jerse plants will step up production a El Melon by 30%. New plant to add 110,000 tons capacity.

SANTIAGO—Improvement in the shipping situation has convinced Chieans that deliveries of used machine from the U. S. soon will be speeded up

For the expansion of Chile's cement industry, more than 1,000 tons of U.S. equipment has arrived, and another 3,000 tons is expected this year. The cement industry is the first of several Chilean industries due to benefit from sales of used U.S. equipment (BW-Oct.3'42,p84).

Oct.3'42,p84).

Two Plants Bought—In October.
1941, the Corporacion de Fomento de la Produccion, a joint government-busness agency, purchased two portland cement plants in New Jersey. When the equipment is installed, the only existing plant in Chile, the El Melon factory, will be able to step up its present production of 420,000 tons by 130,000 tons. In addition, a new company, Juan Soldado Cement Co., will be built to produce 110,000 tons.

The idle plants, one built in 1902,



"Me Change the Baby?"

If the baby's mother can learn to rivet steel pants on a bomber, then old Uncle Gamaliel can change his bachelor ways and learn to pin square pants on the baby...or even read the comics to four-year-old Junior.

Change, you see, is the order of the day.

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And if you, like Uncle Gamaliel, have thought that "the comics" were undignified—no place to present a sales-winning story about advertised products—just make a poll of our millions of fighting men. Most of these men come from homes where the entire family finds in "the comics" their Gilbert and Sullivan—their Joseph Conrad—their Stephen Leacock.

The characters in Puck-The Comic Weekly are their friends, their intimates, their entertainers. These men and their home folks find the life of "Blondie" a hilarious mirror. "Tillie the Toiler", with an eye for smartness in dress, has set many a style. "Believe-it-or-not" Ripley presents strange instructive facts about the world we live in. Skippy is as dignified as Mark Twain's Tom Sawyer and Huckleberry Finn—Puck is vivid, colorful, exciting.

Puck-The Comic Weekly is primarily an entertainment medium designed to do a MAJOR advertising job. For example:

1. Over 80% of all adults read the Comics. Three national weeklies deliver 293 adult readers per dollar invested in half-

page or larger space, but Puck-The Comic Weekly delivers 717 adult readers per dollar invested in an average advertisement.

- 2..Visibility and readership are tops because Puck accepts only a limited number of advertisements per issue. Space in Puck is a valuable franchise.
- 3.. A leading national advertiser whose market is masculine, ran two test advertisements in Puck and in the four leading weekly magazines. Puck pulled more coupons than these four weekly magazines combined! In the last three years this advertiser has run at least one color advertisement every month in Puck.

Distributed to more than 6,250,000 families through 15 great Sunday newspapers from coast to coast, Puck-The Comic Weekly is read by over 20,000,000 people—men, women and children—and blankets the great industrial areas, the most prosperous markets in the U.S.A.

To gain a real understanding of Puck's essential power and dignity, top executives—president, sales manager, and advertising manager, together with key men in the advertising agency—should see and carefully consider Puck's analysis of "Your Customers of Tomorrow." Puck-The Comic Weekly, 959 Eighth Avenue, New York—Hearst Building, Chicago.



Arrests Sparks and Flame, Shackles Explosions

You don't need dynamite and a detonator to get up a first-rate explosion!

Just take some dust-laden air, or air mixed with certain gases, vapors or mists (which may be handy in or around your plant) and touch a spark to them. The result will probably astonish you.

Maybe you can't eliminate certain explosive hazards, but you can choke off the sparks that set them off, with Air-Maze spark arresters.

We are making devices for that purpose now. We can engineer special ones if needed. But one way or the

other you can end the unnecessary danger of potential explosions. Air-Maze intake and tank vent flame arresters get results with many layers of scientifically crimped wire. Air-Maze exhaust spark arresters dis-

dangerous sparks. Complete details on Air-Maze spark and flame arresters are available. Tell

sipate heat rapidly, effectively "killing"

us your problems.

Maybe You'll Find An Idea InTypical AIR-MAZE Uses WAR PLANTS, PLANES, SHIPS

cleaning engine intake air

RADIOS, TELEPHONES - koop ing delicate equipment dust-free SHIP GALLEYS-trapping grouss

PRECISION PRODUCTIONg dust and other unwe

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AIR-MAZE CORPORATION . CLEVELAND, OHIO



the other during the World War, were formerly the property of the Edison Portland Cement Co. Subsequent to purchase by the corporacion, part of the machinery was returned to U.S. was agencies for more important uses. The machinery is valued at \$775,000; dis mantling and transportation will run the cost up to \$1,125,000.

• Demand to Grow-The El Melon cement plant has satisfied most of Chile's needs, but development pro grams of the corporacion envisage local demands for cement up to 586,000 tons by 1945, 880,000 tons by 1950. The corporacion's plants will be located in the North, center, and South of Chile The El Melon and Juan Soldado plants at La Calera on the Santiago-Valparaiso railway and at Coquimbo 200 miles north of Valparaiso, will fulfill the needs of the northern region.

In addition to expanding El Melon's production of cement and building the Juan Soldado plant, the Corporacion expects to exploit limestone deposits at Polpaico and El Volcan near Santiago. Later, another plant will be erected in the South at Lirquen, a coal-producing

• Vast Reconstruction-Cement has been rationed in Chile since March. 1941. Reconstruction work in the Concepcion-Chillan region, devastated by the 1939 earthquake, has made heavy demands on domestic production. In 1940, imports (chiefly from the United States) totaled 34,000 tons. Chile hopes that expansion of cement producing facilities eventually may permit recap-ture of prewar export markets, primarily in Peru.

CANADA

Aid for the Allies

Dominion embarks on its billion-dollar program of mutual help for United Nations; many types of goods go to Russia.

OTTAWA-Big orders are now at hand, and contracts are being negotiated with Canadian producers for goods to be delivered to others of the United Nations under Canada's \$1,000,000,000 mutual aid program.

• Many Items for Russia-Official socrecy prevents description of these orders, but among them are large quantities of flour for Russia (BW-Jul.3'43, p58) and important orders for mechanical transport, machinery, and machine tools for the Soviets, China, and other countries including Empire members. Many items will be the same as those ar, were 1 dison u nt to rt of the 0 ; disval run Melon must of nt proge local O. The cated in f Chile. plants, lparaiso

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THE SMALL metal parts many of us are working on today may be in Tunis next month. If they don't do their job, boys like Bill may never

Parts like EMPIRE bolts and nuts, for example. Shipped by carloads, each one must fit, tighten easily, stand up under fire. They must move fast

Here, at R B & W, machines of our own design are improving the strength of metal, cold-reducing Empire bolts, cold-forging the threads, cold-punching Empire nuts, repunching to insure perfect fit. To this inventiveness, we're adding personal care to make quite sure no weapon fails or waits because of us.

*If you, too, are making vital "bits and parts", we'll send you posters made up from this ad-omitting any reference to us. They're free. Just write Russell, Burdsall & Ward Bolt and Nut Company, Port Chester, N. Y.

Making strong the things that make America strong





COMBAT BODIES



Body builders now providing mobile workshops, command posts, and many other types of combat bodies for the armed forces

TRUCK BODIES



... can quickly change over to the manufacture of delivery trucks and trailers of all types. No new tools required—no spe-cial experience.

A freight trailer makes money when it keeps going-there is no profit in days or weeks lost for repairs.

In Mattoon, Illinois, Hayes Freight Lines have found a way to cut down the doubly costly hours spent for trailer body repairs. H. G. Bowen, purchasing agent for Hayes, reports that "Lindsay Structure saves as much as a week in repairing front end or side panel cave-ins. Due to the simple assembly of the structure, new panel sections are quickly put into place and the truck or trailer body, with a new paint job, is back on the road in a couple of days."

And so another leading motor freight company will have another distinct advantage in meeting post-war competition: LS Trucks and Trailers for more "pay service" hours.

Lindsay Structure offers new efficiency in a wide variety of light sheet metal applications. It will pay you to have complete information in your "Post-War Plans" file. Lindsay and Lindsay, 222 W. Adams Street, Chicago 6, Ill.; or 60 E. 42nd Street, New York 17. N. Y.

BUY WAR BONDS

LINDSAY STRUCTURE

LINDSAY STRUCTURE CAN SAVE THOUSANDS OF TONS OF STEEL PER MONTH

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which will be required for European hef and rehabilitation-newsprint, me ical supplies, etc.

The United Nations that are to be efit are advising Ottawa on need supplies, and the mutual aid administration tion is determining to what extent the needs can be filled without serious depleting necessary stockpiles and civil ian stores.

• Postwar Rationing-Officials believ that mutual aid and the requirement of relief and rehabilitation-soon to be centralized in a United Nations Religions & Rehabilitation Administration (BW) Jul.24'43,p42)-will mean capacity pm duction in nearly all branches of Cana dian industry and agriculture from non on. Shortages of consumer goods for home consumption, and therefore continuation of rationing, are predicted for a long period after fighting stops Europe.

CURB ON ADVERTISING?

Canada's Rubber Controller has decreed that synthetic rubber products must not be advertised in any way by rubber companies, dealers, or anybody else. Ostensibly intended to curtail consumer interest in synthetic rubber products, the move is probably aimed at advertising of postwar products as a tar

Under the Ottawa order, advertising includes space in newspapers, magazines, billboards, and window displays. The synthetic rubber product must not be alluded to even in advertising referring to the need for conserving tires and other rubber goods.

Actually there is little incentive to advertising synthetic tires even if it were permitted because those that are now coming into use on high-priority vehicles carry no maker's name or trade-

POLITICAL PREVIEW

Ontario's provincial general election is regarded by Canadian politicians and business leaders as an advance test of the strength of socialist political forces for the federal election which is likely to come next year. Canada's Cooperative Commonwealth Federation is proposing socialist policies in bids for office in the provincial and federal fields. C.C.F. promises to nationalize banks,

public utilities, communications, and other branches of business, and to exercise state control of some businesses that are not to be nationalized. Some commercial interests have been cooperating with the old-line political parties in organizing against the C.C.F. drive.

C.C.F. successes in provincial elections would be considered significant mainly as signaling the probable election of a socialist government for the Dominion next year.

Business Week . August 7, 1943

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ACTION FASTER

.. when Protected in Shipment by International Silica Gel

When American fighters go into action, their supplies are ready for instant action, too. The speed of modern warfare required a new method of protecting materiel from corrosion in shipment, a method that permits immediate use upon arrival at distant bases. Chemistry found the solution in Silica Gel, a dehydrating agent specified by the Army and Navy for certain materiel and now manufactured by International. War materiel is packaged in a moisture barrier with bags of Silica Gel sealed inside. The Silica Gel adsorbs moisture in the air and

prevents rust. It saves time in packaging because greasing is eliminated; saves time at the scene of action because materiel arrives clean, ready for use. In other ways, too, International is serving the armed forces. Magnesium for airplanes. Potassium Chlorate for small arms ammunition. Mono Sodium Glutamate for Field Ration K. And International Potash, Phosphate and Fertilizers are helping grow the food that makes ours the best fed army in the world. International Minerals & Chemical Corporation. General Offices: 20 North Wacker Drive, Chicago.

International MINERALS AND CHEMICALS

Mining and Manufacturing

PHOSPHATE · POTASH · FERTILIZER · CHEMICALS

Business Week • August 7, 1943

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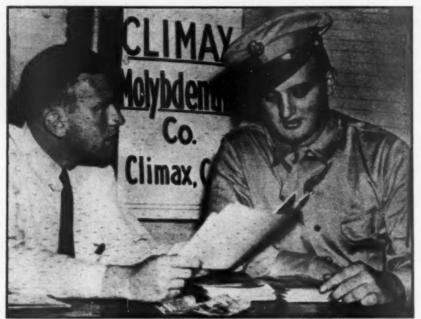
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John Shrant, Climax Molybdenum's personnel man, interviews a medically discharged soldier seeking work in the company's high-altitude (11,- 300-ft.) Colorado diggings. The firm's top priority on hard-rock miners being released from the Army is its real hope for relief from manpower pressure.

LABOR

John L. Reneges

Lewis won't go back into American Federation of Labor, and excuse of jurisdictional trouble seems inadequate.

It has been confidently predicted that the big piece of business before next week's semiannual meeting of the American Federation of Labor's all-powerful executive council would be favorable action on the application of John L. Lewis to reaffiliate his United Mine Workers union. Now, according to members of A.F.L.'s council, that just isn't going to come off.

• In Need of Help-The basis for predicting that Lewis would return to the Federation fold had been sound. He had stood alone in the coal crisis and found the going very, very tough. Other labor leaders, for their own protection and prestige, had to join in sniping at

He seemed to have gone as far as it was possible to go outside of one of the two big labor movements. He showed unmistakable signs of political ambitions which could be most handily furthered by rejoining the A.F.L. When William Hutcheson of the carpenters presented the Lewis application to the A.F.L. executive council, he said that any jurisdictional issues outstanding could be disposed of in five minutes of talk. Everyone knew "Hutch" spoke for Lewis.

· Lewis Is Adamant-But, when three sympathetic A.F.L. conferees met last week with Lewis and his aides, they found themselves face to face with a stone wall. The jurisdictional issues, which were supposed to dissolve, became subjects for extended Lewis oratory. He demanded that the Federation take the U.M.W., just as it is, without any questions about its sprawling District 50, which, on paper at least, competes with almost a dozen A.F.L. organizations.

Efforts to discuss the matter proved fruitless. Lewis, adamantly, said: "That's the proposition. Say yes or no."

To a suggestion that a further meeting be held, Lewis coldly replied, "We've said everything we have to say."

• Everyone Mystified-Bewildered, angry, and genuinely disappointed, the Federation's committee can only recommend to the council that the Lewis application be turned down. None of the three members of the committee, or any of the few union officials who have heard the full story of what went on in the meeting, pretend to have an ex-planation for what happened to Lewis and his plans.

Furlough to Mines

Army to release 4,500 men to copper, moly, and zim pits. This time WMC wants in make certain they'll stick.

Representatives of more than 10 nonferrous metal mining companies wil converge Aug. 12 on Fort Douglas Utah, to begin hiring 4,500 soldiers for work in copper, molybdenum, and zin pits. This will be the second time nonferrous producers have had the Arms funnel manpower into a barrel that ha been scraped clean. That the Army l been induced to repeat, testifies not the success of the experiment but to the truly desperate labor supply situation the nonferrous mines and to the critics importance of the industry's output in the war production program.

• Last Attempt a Fiasco—In many wats

last winter's attempt to convert soldier into metal miners was a fiasco. Nevertheless, the industry's manpower nece are so acute that the Army simply mu be used again, and the War Manpower Commission, which will handle the operation, hopes to be able to profit from experience and make the new transfer really count.

Last time, after a long discussion, the War Production Board got the Army to shift 4,200 men to the enlisted reserve and release them for work in nonferrous mines. Quotas were assigned to commanding officers of camps west of the Mississippi, and they were directed to assemble the men at Salt Lake City.

• Exodus from Guardhouse-It is no secret that most commanders, first considering the orders a nuisance, decided upon reflection that here was a fine opportunity to clean out the guardhouse. Misfits and problem soldiers were urged to apply for the demobilization and in only a few instances were real efforts made to find hard-rock miners or men with closely related experience among the soldiers. Employers, not wanting to push their luck too far and grateful for any specimen who looked reasonably able-bodied, made no serious complaints about the quality of manpower the Army was offering. They took all without question.

The most dramatic example of how badly the thing was planned was offered by Anaconda, which hungrily grabbed 50 Negroes for jobs in Butte. When the Negroes reported for work, 8,000 Anaconda employees walked out. The union, the mine foremen, and the employees had not been notified and prepared for the arrival of the Negroes. To end the strike, the Negroes were sent to

mines in the Southwest.

• Largely Inexperienced-In other companies, although no labor disturbances

Perhaps, here's that help you need

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American Magnesium's Jobbing Division is set up to serve as consultants on fabricating problems. If you are finding it difficult to get your production of magnesium products under way, it is quite possible that we may be able to help you.

Fabricating is the Job Shop's specialty. The men here understand the manufacturing possibilities of Mazlo Magnesium Alloys. They are expert at forming and joining magnesium assemblies. What they have learned here may well enable them to solve the very problems that are bothering you.

Sketched above, you see magnesium oil

tanks for aircraft being assembled by American Magnesium. Such Mazlo Magnesium products contribute the light weight and reliability so necessary in airplane construction. The Jobbing Division has the know-how which speeds this production, getting magnesium products to assembly lines on time.

If you have some problem on which this magnesium fabricating experience will serve as a guide, we'll gladly talk with you about it. Write for the booklet, "Properties of Magnesium Products." American Magnesium Corporation, 1711 Gulf Building, Pittsburgh, Pa.



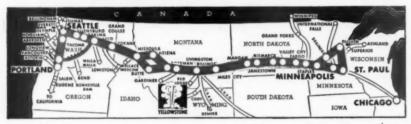
"Veterans" of the Gallic wars...



help the Allies win World War II . . .



as 54 billion beans roll to war...



over the Main Street of the Northwest!

The legions of Caesar, the hosts of Hannibal, like every army before and since, often marched on beans. Today these "veterans" are fighting again . . . helping supply valuable protein and food energy to our armed forces, civilians and allies.

Among the world's favorites are the plump, tender beans grown in the Northwest, in Washington, Oregon, Idaho, Montana and Minnesota. From these states, Northern Pacific Railway last year helped move over 30,000,000 pounds . . . 54 billion beans.

Again this year, as meat-rationing continues, and as war demands for beans increase, this plentiful meat-substitute will be even more conspicuous in the parade of vital war supplies moving along the tracks of the Northern Pacific — Main Street of the Northwest!

NORTHERN PACIFIC

MAIN STREET OF THE NORTHWEST

were touched off, the arrival of the mer soldiers created serious proble. Some of them turned out to be workmen, unwilling to apply themse and learn their new jobs. A substanumber of them drifted from mine mine in search of easier jobs.

Although they were in the end reserve, and the Army kept a string them with a requirement that the port at 90-day intervals to the no Army camp, hundreds of the former diers quietly moved out of the concountry to less arduous, higher-pay iobs in West Coast shipyards and craft plants. Many of these have been located and pulled back into Army. More than a thousand other after anywhere from two weeks to months in the mines, demanded to returned to the Army. Some-the no ber is a secret-simply went "over hill" and are classified as deserters. • Sixty Percent Stuck-Up to 40% the first group provided by the Am have to be classified as a dead loss the group that stuck, however, empl ers report that there are many men u have been shining examples in earns ness, high morale, willingness to wo most part, are men who had some m ing experience before they went in the Army. On this fact WMC is ning its hope that this month's trans will pan out better than the first.

Commanding officers this time has been instructed to ask for voluntary only after first explaining in detail to qualifications and the nature of the job. They will send to Fort Douglas must than the 4,500 who will ultimately be released. At Douglas, experienced into viewers of the United States Employment Service will screen the group, climinating men who lack proper vocation in the proper of the control of

• Priority List Established—The god that will be left, still over the needs 4,500, will be interviewed by employment managers of the nonferrous companies, and weeded out further or him on the spot. A priority list has be prepared on the basis of the productity of each company's mines, so that the best of the new hands will be place where they will do the most good. The sepected to bring a scream from the smaller mines, long on ambition his short on production.

short on production.

Not all copper, molybdenum, and zinc producers will get soldiers. The Army will release only enough to state the hundred-odd most productive digings where acute manpower deficients are holding up output. Furloughed states will be assigned only to under ground mines, not to open-pit open tions in the Southwest where Mexical will be recruited. And as between the mines of equal productivity, the or

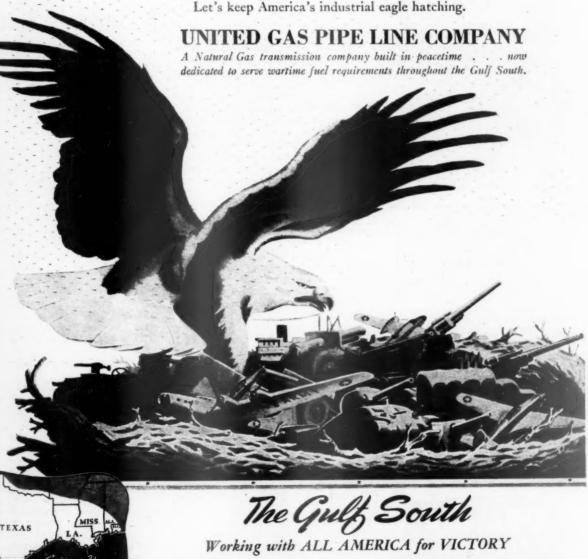
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LET'S KEEP IT HATCHING!

· America's industrial eagle is hatching the weapons for Victory in the Gulf South and throughout America. We must all keep working with might and main to fill the Eagle's Nest to overflowing.

The Gulf South is playing its part. Its people are working harder-making greater sacrifices. Its rich natural resources are pouring out of the earth into Gulf South war plants. Its factories are working day and night converting its resources into war materiel that means quicker Victory for our fighting

Let's keep America's industrial eagle hatching.



Beaumont, Dallas, Fort Worth, Houston, Longview, San Antonio and Wichita Falls. For Louisiana, Mail received at: Baton Rouge, Orleans and Shreveport. For Mississippi, Alabama and Florida, Mail received at: Jackson, Mississippi.

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that can provide the best working and living conditions for the soldiers will get the nod.

• Union Officials on Hand—WMC is working on the theory that the best way to have the new crop stick and pull its own weight is to be sure that the civilian life they return to is at least as attractive as Army life. And lest the soldiers have any illusions about life and work in a copper camp, WMC is bringing A.F.L. and C. I.O. officials from the mines to Fort Douglas to answer any questions the soldiers may have about the prospect they face.

Although the new group goes into the enlisted reserve, there is no 90-day reporting routine involved. When an ex-soldier quits or proves unsatisfactory, the employer is bound to notify the local WMC office, which in turn notifies Selective Service. If the program meshes on schedule, an ex-soldier will find himself back in uniform three days after he has stopped being a metal

• Turnover Still High-As in other extractive industries, the nonferrous manpower problem is not, primarily, getting more men, but holding on to those it has. Selective Service is no longer inducting experienced miners, but the turnover rate in the western mines-in spite of a rigid job freeze-is still running at almost 10% a month. This means that in ten months an employer has to hire the equivalent of a full new work force. The new drive isn't expected to do more than permit the mines to hold their own through the summer and help them offset the effect of the loss of miners who mine in the winter and farm in the summer.

One big copper mine reported 152 hires, 151 quits in June, and that experience is not unique. Another firm sent a personnel man to Lead, S. D., to do some missionary work among idle gold miners. After eight days, he returned with one miner. Kennecott, refusing certificates of availability to its employees who wanted to leave its mines, found 165 of them ganging up to drop their union membership and get fired under the company's maintenance-of-membership contract with the C.I.O. (BW-Jul. 24'43,p94). A few operators of small closed gold mines have taken jobs as nonferrous miners.

• Watched by USES—Actually, with nonferrous experience sought in every job applicant at USES offices all over the country, there isn't much opportunity for a metal miner to move out of the industry unless he gets a new job through a black market in labor. If an ex-Climax Molybdenum employee turns up for a job in Philadelphia shipyard or San Diego aircraft plant, before USES will let him be hired it gets an explanation from Climax as to why the applicant isn't digging moly. If he's what the employment service people now call a

fugitive, he's shipped back to the most tain. And if he has tried to conceal work experience in the industry, Us will have found him out by jetting memployment record from the Social curity Board.

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The turnover rate is therefore not a result of the departure of men from a industry. It is almost purely turnover the sense that men drift from one mento another and from one company to a other in the spirit of the old prospects of the West. No one in the indust ever bothered much about this ance tradition in the palmy days of lab surpluses, but now it is proving to be wasteful, costly habit. As soon as the manpower commission gets the ne batch of soldiers safely underground, will address itself to the problem of changing the migratory habits of the miners.

Foremen's Test

Association, whose drive to organize supervisors has his new low, seeks vote for strike in NLRB ballot at Murray.

The drive to unionize foremen (if gradually quieting down, but it is still far from a solved problem) drew not another milestone this week. It will come in the form of a strike ballot to be conducted by the National Labor Relations Board at the Murray Corp., De troit builder of aircraft parts. The vot will result from a notice of intent strike which has been filed by the Foreman's Assn. of America under the terms of the Connally-Smith War Labor Deputes Act.

• Early Drive Impressive—Last winter activities of the F.A.A. made hot news gave more than one industrialist night mares. Organization of supervisors, under young and presentable Robert II Keys, appeared to be the most sweeping development on the employee relation

F.A.A. had organized the Ford Roughlant in September, 1941 and, over the ensuing year and a half, had picked up converts in more than a score of Michigan plants. In April of this year, it claimed more than 15,000 members-but, except for a narrowly restricted contract with Ford, it didn't have any written collective bargaining agreement (BW-Apr.17'43,p102).

• NLRB Action Dropped—At Ford's the group had begun proceeding against the company before NLRB, then had withdrawn its petition in November, 1942, when an agreement was signed which fixed a schedule of salaries and hourly rates of pay for foremen. Beyond that point, however, the foremen's drive seemed to turn sticky. Even

hough an election at Packard was won v 480 to 2, another election was or-ered by NLRB at Murray, and chaprs spring up in other middle western wns, few concrete results could be

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Management throughout the Detroit ea took the position that the foreman as a part of management itself and ould not be recognized as a union nember. The whole problem of F.A.A.'s gal right to recognition came to issue i the Maryland Drydock Co. case be-ore NLRB last May. Although the A.A. was not itself a party (the comany's foremen were represented by LO's Industrial Union of Marine & hipbuilding Workers), the question efore the board boiled down to, "Are mions of supervisory employees en-itled to the protection and benefits of he Wagner Act?

Twice Rebuffed-To this, NLRB in a plit decision answered "No" (BW-May 15'43, p8), and the organization rive reeled. Just last week, NLRB anwered the same question again the ame way, this time in a case involving

General Motors Corp.

Until the time of the Maryland Dry-ock ruling, the Foreman's Assn. had ingged consistently on the theme that he supervisor was a good guy, that he needed recognition in group form, and that he definitely took no sides as beween management and labor. Keys, in he pre-NLRB decision days, was quoted is saying, "We do not speak for man-agement, we do not speak for labor. We will not take sides against either." • Big Unions Cool-Since the NLRB turn-down, however, the foremen group has been asking for support from massproduction unions. A conference was held with top C.I.O. officials; other feelers went out to the A.F.L. But the production unions felt that, at this point, the foremen would be more rouble than they were worth.

F.A.A.'s latest dramatic organizing move came on July 10 when its mcmbers in one of the Murray Corp. plants failed to report for work. The association was after a signed contract with the company. Leaflets distributed to C.I.O. production workers inside the plant said, "Whatever we gain will be your gain. We know you won't let us down, and pledge that we will not let you down in disputes which you-may have in the

future."

But the production unionists ignored the implicit suggestion that they strike in sympathy. The plant continued to operate, its production curtailed but not to an alarming degree. Sporadic picket-ing went on for a few days; then the foremen returned to work.

• Strike Sought-Shortly Approval thereafter, the F.A.A. turned to the new labor law for help, registered an intent to strike with NRLB, and is now cam-

paigning for a strike vote.

Battling flames on the briny deep calls for a deepdrawn cylinder

Shown below is one of the many products built by Hackney for the war effort. This cylinder, cold-drawn to specifications by the Hackney process, is made of bighstrength alloy steel.



A terror to men at sea-fire is now being controlled in many instances by the liberation of inert gases from steel cylinders where it is stored. The cylinders, in common with many other war products, are deep-drawn by the Hackney process. Light weight and uniform sidewall thickness are assured by cold-drawing while ample strength is provided by electrically controlled heat-treating.

Under the trade name "Hackney," Pressed Steel Tank Company has specialized in the making of seamless cold-drawn shapes and shells for more than 40 years. The Hackney Deep-Drawn Process has in many cases made it possible to save on scarce materials, as colddrawing permits close control of metal thickness.

Hackney engineers have had much valuable experience in working with numerous concerns in many different war industries. It may be that your product can use the time- and material-saving advantages of the Hackney Deep-Drawn Process. Hackney is ready to help you. Write today for full details.



DEEP-DRAWN SHAPES AND SHELLS



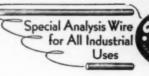
KEYSTONE Wire

Many advance bases near our fighting fronts are equipped with spot airplane runways in a hurry. Rolls of ready woven and reinforced fabric are quickly unrolled and anchored down. In a mere matter of hours satisfactory landing fields are thus created.

Here is a combat advantage wherein wire mill production plays a major hand. Keystone is supplying many miles of wire fabric for this use—as well as thousands of items to help equip planes, tanks, ships, and guns. Each day of this production brings us that much nearer Victory—when

wire and wire mill products will again be rolling...to meet a pent up civilian demand.

KEYSTONE STEEL & WIRE CO. PEORIA, ILLINOIS





British "Tommies" laying chicken-mesh landing mat.

One of thousands of wire mill

products for war uses.

Getting up Steam

Labor-management group in war plants revivified unde Quinn regime. His goal for 194 is 5,000 active committees.

The job of Theodore K. Quinn, not director-general of the war production drive, is off to a fast start. He was brought to Washington by War Induction Board Vice-Chairman Charles E. Wilson from the presidency of the Maxon advertising agency (BW-Jul) '43,p7).

Infusing Plant Committees—Quind assignment is to push the listless labor management committees in the war plants into high gear. Launched with a blare of ballyhoo early last year, the committees have, for the most part been stuck at dead center for the passix months. Management has been largely indifferent about the fate of the passix months and the unions have committees, and the unions have committees, and the unions have committees they were just so much window dressing. When Quinn stepped in records showed that 2,000 plant committees had been established, but no

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WOMAN'S WORK

Only woman in a group of five RCA Victor plant contest winners who were honor guests at a ship christening, Mrs. Lena Rettberg (center), Hamson, N. J., swung a champagne bottle against the bow of the tanker Rosebud in a ceremony at Mobile, Ala., presided over by David R. Dunlap (right) president of the Alabama Dry Dod & Shipbuilding Co. Grand prize winner Robert W. Young, 26-year-old radio expert of the Camden (N. J.) RCA Victor plant, bowed to the main time superstition that ships not launched by women are ill-fated.

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Army Air Force crews servicing the Vengeance dive bomber abroad get their news from home in the same crate that brings them spare parts from the Nashville division of Consolidated Vultee Aircraft Corp. The parts must be individually wrapped anyhow, and an employee of the shipping department, on a tip from a nephew in the Air Forces, decided to use newspaper.

The Office of Censorship approved. Now, with every shipment of replacement parts, the ground crews receive an assorted selection of the New York Times, the Louisville Courier-Journal, the Nashville Tennesseean, the Nashville Banner, and any others the employees care to contribute.

one was sure he was taking over a going concern.

After not much more than a month of the Quinn regime, the number of committees has risen to 2,245, and, what is more significant, many established committees which were considered defunct are renascent. Quinn's goal is 5,000 functioning committees by the end of 1943.

• Weekly Paper Born—To make that grade, war production drive headquarters has been streamlined and repowered. Headquarters snatched Herman Wolf from the Treasury, where he had been promoting the war bond selling campaign to labor and building up the tremendous payroll deduction bond buying program which now covers every major plant in the nation. Quinn assigned Wolf to the job of getting the unions behind the production drive, and got an appropriation for Wolf to publish a weekly paper.

The first issue, out last week, looks very much like the C.I.O. News. It is tabloid in size and semitabloid in its profuse illustration. The paper's debut on schedule illustrates Quinn's methods. When red tape at the Bureau of the Budget held up final clearance for the weekly Labor-Management News, Quinn told the printer that he would personally underwrite the first issue and guarantee expenses.

• Select Circulation—The Labor-Management News will be a clearing house for successful ideas from the field on pushing output. It will go, in bundles, to functioning committees, executives of war plants, and special concentration industries—currently steel—where special efforts are being made to meet raised quotas. After the steel drive, production raising drives are planned for aircraft, copper, coal, wood pulp, lumber.

Business Week • August 7, 1943

The office ought to have a swing shift, too!

"WE'VE WORKED EVERY NIGHT this week and we're still swamped. I don't mind long hours as long as I'm helping the war effort. But at this rate we're going to suffer — and so is our work. We've got to find a way to speed up office work."



"AS A PRINTER. I've helped many customers lick such problems with the ideas in this Hammermill book. They'll help any one organize his job, do more in a day by putting things on paper. And for service, I recommend you put those ideas to work on Hammermill Bond."

What is your wartime problem?

- · Shortage of help?
- Pressure of details.
- Need to organize your working day?
- "Junk heap" desk?

Whatever your office problem, Hammermill wants to help you. It offers you not only dependable paper, product of over 40 years' experience, but also practical ideas on how to use paper and printing to step up your personal efficiency, clear your desk and your mind for important jobs. You'll find some of those ideas in the little book below. It's a Hammermill service to help you multiply manpower. Send for it.



HOW WMC CLASSIFIES CITIES

Labor Stringency Determines Their Rank

Every city in the country with a population of 25,000 or more is now classified by the War Manpower Commission in terms of its manpower supply. These classifications are reviewed each month, and at monthly intervals, WMC changes classifications in cases where it is evident that the labor market situation has altered. Thus, for example, in the August listing, the Dayton-Springfield (Ohio) area, which had been classified in Group I, is shifted to Group II. Over the last few months manpower in that community has become less tight, and a program for labor sharing and labor stabilization, worked out jointly by industries and unions there, has been accepted by WMC as a guarantee that Dayton-Springfield can keep its head above water.

How a city is classified by WMC has become increasingly important to its business men. Procurement agencies are giving more and more weight to manpower considerations in letting and canceling contracts. Other things being reasonably equal, a plant located in a Group I city will be much less likely to get a new contract than a city listed in another group; and as between two firms in different towns holding contracts that the government wants to scale down, the company in the tighter manpower area can expect to suffer first. hap

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WMC now has 55 communities in Group I, defined as "areas of acute labor shortage"; 111 in Group II-"areas of labor stringency in which a labor shortage may be anticipated within six months"; 81 in Group III -"areas in which a general labor shortage may be anticipated after six months"; 88 in Group IV-"areas in which labor supply is, and will continue to be, adequate to meet all known labor requirements."

The classification of the areas is as

Alabama Anniston, Gadsden, Mobile Il Florence, Huntsville, Talladega III Birmingham IV Montgomery, Tusca-Arizona II Phoenix, Tucson Arkansas Pine Bluff IV Fort Smith, Little Rock

Rock
California
Eureka, Los Angeles,
San Diego, San Stockton

II Bakersfield, BrawleyEl Centro, Fresno, Modesto, Sacra-mento, San Bernardino - Riverside, Ana, Sobare Jose, Santa Santa Bar-Ventura-Ox-

bara, nard other areas in Group III All Colorado

Colorado Springs, Denver, Pueblo III Colorado

Connecue Bridgeport, Barr-ford, New Britain-Bristol, Waterbury Waterbury Middle-Haven, Il Meriden, Middle-town, New Haven, New London-Gro-ton, Stamford

III Norwalk, Norwich IV Danbury, Torrington Delaware Wilmington District of Columbia

Washington Florida
Jacksonville, Panama
City, Pensacola,
Tampa
Miami, Orlando,
West Palm Beach

Georgia Brunswick, Macon, Savannah

II Atlanta, Augusta, Columbus III Rome Idaho

II Boise, Pocatello Illinois South Chicago, Sterling

11 Aurora-Elgin, Chica-go, DeKalb, Rock-ford, Springfield-Decatur III Joliet, Moline, Chica-

Waukegan IV Bloomington, Cham-paign, Danville, Galesburg, Herrin, Peoria, Quincy

Indiana anderson, Evansville, Gary-Hammond II Connersville, Fort II Connersville, Fort
Wayne, Indianapolis, Michigan CityLa Porte, Muncie,
Newcastle, Richmond, South Bend
III Bloomington-Burns
City, Kokomo, Lafayette, Logansport, Marion
IV Terre Haute

Iowa
II Clinton, Des Moines
III Burlington, Cedar
Rapids, Council Rapids, Council Bluffs, Waterloo IV Dubuque, Mason City, Ottumwa, Sioux City

Kansas Wichita Parsons III Topeka IV Hutchinson

Louisville IV Lexington, Owens-boro, Paducah

II Lake Charles
III New Orleans Louisiana III New Orice.
IV Alexandria, Baton Rouge, Me Sterlington, Shreveport-Minden

III Lewiston IV Bangor Maryland I Baltimore, Elkton III Cumberland, Hagerstown

I Portland II Bath

Massachusetts 1 New Bedford II Springfield-Holyoke-Northampton

III Boston-Quincy-Hing-ham, Brockton, Fall River, Fitchburg, Greenfield, Lynn-Salem, North Adams, Taun Taunton, Worcester
IV Haverhill, Lawrence,
Lowell, Pittsfield

Michigan I Detroit, Muskegon II Adrian, Battle Creek, Benton Harbor, Flint, Monroe, Pontiac, Port Huron, Saginaw Huron, Saginaw-Bay City
III Grand Rapids, Jack-son, Kalamazoo,

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Minnesota III Duluth IV Minneapolis-St. Paul, Rochester

Mississippi Pascagoula III Aberdeen, Meridian IV Jackson, Vicksburg

Missouri III Kansas City, St. Louis
IV Joplin, Springfield,
St. Joseph Montana

Butte II Billings III Great Falls

Nebraska II Grand Island-Hastings III Lincoln, Omaha

Las Vegas II Reno

New Hampshire II Claremont, mouth III Nashua

IV Concord, Manchester

New Jersey Somerville, Trenton Newark, Paterson, II Newark, Paterson, Perth Amboy III Long Branch, Mor-ristown IV Atlantic City

New Mexico IV Albuquerque

New York Buffalo-Niagara

II Albany-Schenectady-Troy, Amsterdam Gloversville, Gen-eva, Massena,

Rochester, cuse, Utica-Rome III Auburn, Batavi uburn, Batavia, Binghamton, Dun-Elmira, Ithaca, Jamestown, Newburgh, Sidney, Watertown IV Kingston, New York,

North Carolina Char-North Caronia

II Burlington, Char
lotte, Wilmington

IV Asheville, DurhamRaleigh, Greens
boro-WinstonPoolsy Rocky Salem, Rock Mount-Wilson

Poughkeepsie

North Dakota IV Fargo

Ohio Akron II Canton-Massillon-Alliance, Cleveland, Columbus, Dayton-Springfield, Lima, Springfield, Lima,
Lorain-Elyria,
Mansfield, Newark,
Piqua-Sidney-Troy,
Sandusky-FremontPort Clinton,
Youngstown-Warren-Sharon
III Cincinnati, FostoriaFinlay-Tiffin, Hamilton-Middletown,
Marion, Toledo

Marion, Toledo

IV Portsmouth, Steubenville, Zanesville

Oklahoma

I Oklahoma City
II Chateau, McAlester,
Tulsa

IV Enid, Muskogee

Oregon Portland III Corvallis, Eugene

Pennsylvania Chambersburg II Aliquippa, Allen-town, Erie, Harrisburg, Johnstown, Lancaster, Lebanon, Lancaster, Lebanon, New Castle, Phila-delphia, Pittsburgh, Reading - Pottstown, Washington Berwick, Scranton,

III Berwick, Scranton, Williamsport, York IV Altoona

Rhode Island II Newport, Providence Pawtucket - Woonsocket

South Carolina Charleston II Spartanburg
IV Columbia, Greenville South Dakota

III Sioux Falls Tennessee

III Knoxville Chattanooga, Kings-port-Bristol, Mem-phis, Nashville Texas

I Beaumont II Dallas, Fort Worth, Galveston, Houston, Galveston, Texarkana Browns-III Amarillo,

ville, Corpus Christi, San Antonio IV Abilene, Austin, El Paso, Laredo, Lub-bock, San Angelo, Tyler, Waco, Tyler, Was Wichita Falls

Utah Ogden, Salt Lake

City II Provo Vermont Springfield

IV Burlington Virginia Hampton Roads Richmond-Petersburg IV Danville, Lynchburg, Roanoke

Washington Washington

I Everett, Seattle-Tacoma Bremerton,
Spokane, Vancouver

II Longview-Kelso

III Aberdeen-Hoquiam,
Olympia, Yakima

West Virginia IV Charleston, Clarks-burg-Fairmont-Morgantown, Hunting-ton, Parkersburg, Point Pleasant,

Wheeling Wisconsin Racine, Sturgeon Bay II Kenosha, Manitowoc, Milwaukee, Beloit III Eau Claire, LaCrosse, Madison-Merriman,

Sheboygan, Superior Fond du IV Appleton, Fond Lac, Oshkosh, Wausau

Wyoming Cheyenne Territory Hawaii

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haping the Law

Industry commissions of WLB regain authority in wage ses under first interpretation Connally-Smith Act.

The first of what promises to be a lies of official interpretations of the binnally-Smith War Labor Disputes at was available for study this week. Was written by the National War Lar Board's general counsel, Lloyd K. Intison, who is preparing further inspretations for the guidance of the lard. A second followed a few days ter (page 15). Until the courts decide appraise Garrison's doctrines—which lay well be long after NWLB has last document of the long after of the lard of the long after of the lard of the last as far as the board's certain under the act is concerned.

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Board's Status Fortified—The first Garon ruling is on a relatively minor issue, at it is considered significant. One ntence in the opinion is being taken a foretaste of other opinions which ill follow. It says: "Congress intended take the board as it was, to accept ad confirm its tripartite character, to rengthen its already existing authority, add to its powers."

The Garrison opinion concerned sitations in which board members were not were not disqualified from particiating in decisions. Section 7(c) of the et states that "no member of the board hall be permitted to participate in any ecision in which such member has a irect interest as an officer, employee, or epresentative of either party in the

Commissions Stripped—When the ct was passed, a question arose as to hether the high officers of the A.F.L. and C.I.O., who represent organized abor on NWLB, were eligible to sit on ases involving their respective organizations. The board left that question manswered but did remove authority from its four industry commissions, ande up of employers, trade association ficials, and union officers. These commissions functioned in the trucking, tonferrous metals, Detroit tool and die, and West Coast lumber industries.

Authority Restored—The Garrison pinion holds, however, that these commissions may, without a change in heir form or personnel, have their authority restored. The theory is that Congress did not intend to weaken NWLB and eliminating the commissions would impair the board's effectiveness. Garrison wrote:

"For example, it would, we think, be sholly inconsistent with the purpose of the statute to conclude that Congress intended that no A.F.L. member of the board could participate in any decision involving an A.F.L. affiliate; or that a C.I.O. member



ven before production begins, time, space

and manpower are saved when handling of raw materials

is systematized by

TOWMOTOR



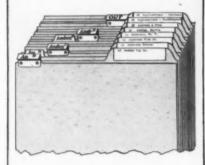
THE 24-HOUR ONE-MAN-GANG

TOWMOTOR CORPORATION . 1221 E. 152 NO STREET, CLEVELAND 10, OHIO STRAIGHT-GAS POWERED INDUSTRIAL TRUCKS EXCLUSIVELY—SINCE 1919

Engineering...Production Sales...Accounting

"SAFEGUARD" Filing and Finding

It is the system that counts in filing no matter where the files are being used. Names should be easy to locate . . . there should be ample provision for expansion . . . the indexing system must be quickly understood.



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Globe-Wernicke provides a complete line of files and filing supplies. Ask your Globe-Wernicke dealer for the new illustrated booklet"For Faster Filing and Finding."



Makers of over 4000 Items NEEDED IN OFFICES



CROSS-PURPOSE PICKETS

Long inured to interunion squabbles, Chicago housewives were stumped when rival A.F.L. unions picketed South Side food stores. "Unfair," said Building Service Employees International, after the stores allegedly refused to negotiate. "Fair," said Re-

tail Clerks International Protect Assn., which has a master agreen with the stores through the Co County Food Dealers Assn. Seren confident of its jurisdiction, the ret clerks union accused the building a plovees local of chiseling its member ship, broke its no-wartime-pickets pledge to protect stores' trade.

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would be similarly disqualified; or that an industry member who was an officer, employee, or representative of the National Assn. of Manufacturers or the United States Chamber of Commerce could not sit in a case involving an employer who was a member of the association or the chamber.

NWLB ADMITS FALLIBILITY

Where a party to a decision of the National War Labor Board demonstrates that the board's order does not satisfy the equities of the case, the board will remedy its mistake. Such was the substance of an announcement issued by NWLB this week as it reversed a decision setting the effective date of an agreed 51¢ increase for about 800 employees of the Flannery Bolt Co. of Bridgeville, Pa.

The board's reversal changed the retroactive date from July 1, 1942, as it had previously ordered, to Feb. 15, 1942, in response to a petition from C.I.O.'s United Steelworkers, which claimed that an error had been made. Employer members of the board, who dissented from the change, were nevertheless pleased that NWLB's majority admitted its fallibility and opened the way for further rechecks of its awards.

KAISER LITIGATION ENDS

It has taken an act of Congress strate get Henry J. Kaiser off the spot in bitter clash between A.F.L. and C.I.

His Portland (Ore.) shipyards came the battleground for the labor groups when the C.I.O. d lenged his union shop contracts with the A.F.L. as collusive and illegal. Il fight over which organization would represent Kaiser employees went to th National Labor Relations Board which under the Wagner Act, had no alten tive except to sift all charges and ord a poll taken to determine which uni the Kaiser workers wanted to represent them (BW-Jun.5'43,p77)

Appalled at what a collective bargain ing election campaign might do shipyard routine and output, Congre tacked a rider onto the Labor De appropriation bill prohibiting NLR from reopening a labor contract that has been in effect over three months.

Last week NLRB announced it was removing from its docket C.I.O. of plaints against the West Coast sh builder, ordered a hearing for Aug. to see why the case should not be dis missed without prejudice.



BALTIMORE, MD.

Try laughing these off

(Actual Cases from U. S.F. & G. files)



Coffee Scalds Yachtsman

Precious as coffee is, the pot held too much to suit the midwest executive . . . for when the boat rolled, the coffee spilled, severely burning him. Fortunately he carried accident insurance with U.S.F.&G. and received \$737.00 for medical expenses and time lost from work. Would you be similarly compensated?



Case No. 35-B-198

Hard-Working Burglars

Determined indeed were the burglars who climbed to the winery's first floor roof, forced a window, cracked the safe, and ripped out the "burglar-proof" chest inside. Their loot . . over \$600. But thanks to burglary insurance with U.S.F. &G., the owners were spared this loss. What about your place of business, your home?



Case No. 21-G-1297

Wind Shatters Glass

The big blow in the little Pennsylvania town might have been a severe financial blow to the main street shopkeeper . . . for it shattered his plate glass display window. But the shopkeeper had been wise enough to insure his window through U.S.F.&G. and so was spared any loss. Are your glass win-dows and doors insured?

as you would your doctor or lawyer

onsult your insurance agent or broker

siness Week • August 7, 1943

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MARKETING

Noble Buys Blue

RCA sells network, as required by FCC, for \$8,000,000.

Ownership of three stations constitutes principal asset.

For a year and a half, since the Federal Communications Commission fathered a shotgun divorce of the Blue Network from NBC's Red, the radio industry has known that the Radio Corp. of America would sell the Blue. National Broadcasting's No. 2 network has, in fact, been operated separately ever since Assistant Attorney General Thurman Arnold took the antimonopoly cudgel in hand and started swinging it over the networks in general and NBC in particular (BW-Jan.10'42,p44).

New Standard of Value-But fore-

• New Standard of Value—But forewarning did nothing to dull trade excitement last week over the purchase of the Blue Network by Edward J. Noble, owner of New York's radio station WMCA and chairman of the board of Life Savers Corp. It was as though for the first time in the meteoric rise of the industry a value had been set on radio broadcasting. The Blue Network and its three owned and operated stations were sold for \$8,000,000. Virtually the only other standard of value for sale of a top ranking station was that established seven years ago when the Columbia Broadcasting Sys-



Following a week of aggressive competition in bidding for the Blue Network, Edward J. Noble, former assistant Secretary of Commerce, closed the deal with an offer of \$8,000,000.

tem bought KNX, Hollywood, for a price of \$1,250,000.

The three stations which the Blue cwns and operates constitute the principal asset which Noble acquired, for the network itself represents only a collection of valuable, but nonetheless alterable, contracts with 155 stations, 43 of them on the so-called basic Blue (in addition to the three owned and operated stations) and 112 on supplementary hookups.

Just how these contracts may be valued in comparison with the revenues from the owned and operated stations may be surmised from the estimate of Broadcasting Magazine that the Blue would have had a net operating loss last year had the revenue from the owned stations not offset this by some \$30,000. This year, the Blue estimates it will turn in a million dollar profit.

• What the Blue Has—The Blue's

• What the Blue Has—The Blue's owned and operated stations are WJZ in New York City, a full-time 50,000-watt station; San Francisco's KGO, which operates with 7,500 watts; and WENR in Chicago, which operates half time, sharing its wavelength with WLS, an independent station which is, however, affiliated with the Blue Network. Important as these stations are, listening surveys show that outlets of both the NBC and the Columbia Broadcasting Co. systems, and sometimes other stations, enjoy wider popularity in the three cities.

It is on purchase of these stations, rather than of the network, that FCC will hold hearings prior to official confirmation of the sale. (In compliance with the FCC ban on single ownership of any two stations in the same city, Noble is already making plans to sell WMCA, which he bought in 1941.)

• Sales Gains Impressive—Largely responsible for widespread interest in the sale—and the \$8,000,000 selling price—are skyrocketing billings of the Blue. In the first six months of this year, sales ran to \$12,541,940—a 62% increase over a \$7,576,145 volume in the same period last year. In June, the increase was even more spectacular, with \$2,026,731 sales running 82% over \$1,118,943 in June of 1942.

Much of this increase can be attributed to generally increased business and overflow from NBC and Columbia, but the improvement in the Blue's competitive position, resulting from the intensive selling activity, is evident in the fact that the Blue, so far this year, has consistently outgained the up-and-coming Mutual Broadcasting System, whose sales for the first six months were only 10% ahead of last year. Even Mutual's gain of 65% in June was less



COASTERS COME THROUGH

Delivery of Pittsburgh's new to phone directory posed labor and ga line problems until someone thou of boys with coaster wagons. To distributed 257,000 books in less to a month, 12,000 more than a commodial distributor delivered last time

than the Blue's. This reverses of petition for 1942 when Mutual's a of \$9,636,159 were 32% ahead of 14 while the Blue gained 29%, rolling a \$16,152,088 volume. Sales of N and Columbia ran around \$45,000 each last year.

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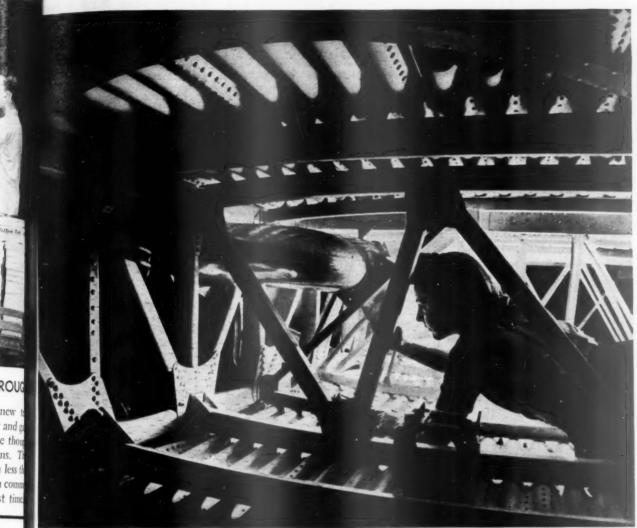
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• Stepchild No Longer—Next to be business, the trade regards divorce in NBC Red as probably the biggest fad in the dramatic rise of the Blue, it was common gossip that the Blue is a stepchild in the RCA family and the Red got most of the fat contrate. The fact that the Blue is now on own is almost as important to C and Mutual, which have long to nettled by NBC's ability to offer additisers a choice of stations in many chand to switch stations onto which network needed them under the attional Red-Blue arrangement.

Currently, the Blue Network a card shows prices which are about to thirds the charges for the same amount of time on CBS and NBC, and to price relationship is taken in the transa a fair reflection of the comparate



Buy War Bonds and Stamps

Wing of battle

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The pilot said, "I looked out at our right wing and saw it was all shot to hell. There were holes everywhere. A couple of them were shell holes-big enough to drive a sheep through. The other wing was all shot up, too.

But with two engines knocked out, with rudder and stabilizers torn by exploding shells, half of the controls shot away . . . the Boeing Flying Fortress* fought off 40 Focke-Wulfs and made her way home safely to England.

THAT TRIP really started on a drafting board in the Boeing plant at Seattle, where the wing you here see under construction was designed.

It is rather a remarkable wing. For one thing, it is today carrying double the load it was originally intended for . . . including bomb loads ranging up to to tons, equaling or surpassing any other bomber now in service.

The enemy have found it a difficult wing to put out of commission. Axis pilots have learned that even when they pump hundreds of bullets into a Fortress wing, it does not collapse. One reason is that Boeing distributes the stresses in such a way as to minimize the effect of damage in any one locality; the enemy can shoot pieces out, but can seldom destroy the wing entirely. Such a wing might appear difficult to manufacture, but Boeing builds them in large numbers with a minimum of man-hours - a tribute to Boeing production engineering.

Some day Boeing skills in research, design, engineering and production will be turned once more to products of peace. And then, as now, you may know of any product . . . if it's "Built by Boeing" it's bound to be good.

DESIGNERS OF THE FLYING FORTRESS . THE STRATOLINER . PAN AMERICAN CLIPPERS BOEING

THE YERMS "FIVING FORTRESS" AND "STRATOLINER" ARE REGISTERED BORING TRADE-MARKS

Business Week • August 7, 1943

strength of the Blue in terms of signal power and listening audience.

• Financing Prospects—For the present, Noble is maintaining 100% ownership and says that any other financial arrangments are definitely in the long-range planning department; he suggests they may eventually include partnership, sale of stock to affiliated stations, and even sale to the public. Feeling in the trade is that stations will be allowed to buy in heavily.

Shift in Shoes

Sales in low-priced lines perk up under stimulus of "good-as-any" slogan; rationing has hit cheap shoes hardest.

Abetted by a bigger bankroll in shoppers' pockets, rationing has stepped up demand for high-priced shoes, left cheap models to gather dust on basement counters. Upper bracket manufacturers and retailers, who had formerly disdained aggressive advertising, found that rationing gave them a wonderful handle for promotion, and they went to town. Dealers in low-priced footwear sat on the sidelines and chewed their nails. Then they got an idea. Now it looks as though, before long, the shoe may be on the other foot.

• As Good as Any—Witness recent hard-hitting advertising by Thom McAn and others suggesting that, with the best grades of sole leather now going to the military, quality differences between high-price and low-price lines are narrowing.

Opinion among the various shoe and leather experts in Washington is that while civilians, by and large, are having to get along with inferior grades of leather, some top-grade stuff which doesn't meet Army specifications is still available. And they point out that there's a lot to shoes besides leather.

• Cheap Shoes Drop—Sharpest sales drop under rationing has been in shoes in the very lowest price range—footwear retailing for \$2 a pair and under. A National Retail Dry Goods Assn. survey among its department store members at the end of the first ration period showed typical sales increases of 25% to 40% in shoes retailing at \$7 and over, 15% in shoes selling at \$6 to \$7, and 10% in \$4 shoes.

A sample survey, run off by the Cen-

sus Bureau for OPA, showed that in first ration period 38.1% of the sumers paid their accustomed price shoes, 10.9% paid less, and 45.3%; more. Half of those paying more ported the increase was less than 5]

• Shaking Down to Normal—While statistics are plain enough, the the was somewhat surprised that they did reflect even more of a stampede. The one reason observers think sales a gradually be shaking down to norm WPB already has acted to bring little relief where frozen products.

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WPB already has acted to bring little relief where frozen product quotas pinch most. On boys, miss children's, and infants' shoes (whe rationing has caused the greatest haship) manufacturers are allowed to a crease production 25%. They're a allowed a 15% increase on men's we shoes and a 25% increase on men's we shoes and a 25% increase on men's and children's shoes can eliminate has retailing below \$2, concentrate all the production of cheap models at the price.

• Guarding Quality Difficult—OPA h been hacking away at the problem of deteriorating quality with no compet sating reductions in price, but it he proved a tough nut. Manufacturers a ways have adhered more rigidly to the price lines in shoes than in almost another section of the clothing field, and OPA has found that it is well-nigh in possible to compel a maker of a 59 sho to slash his price because, through m fault of his own, he can't get as good leather as he used to.

Last spring, OPA proposed to the is dustry a scheme for fixing prices on a cost-plus-markup basis which was de signed to take care of reductions in quaity, but a mighty howl went up and little more has been heard of it.

• Sharp Drop from 1942—Total civilians shoe production this year is estimated at about 380,000,000 pairs (this includes 40,000,000 pairs of house slippers). The is a pretty sharp drop from 1942 (441,000,000 pairs); and 1942, in turn, was 9% under 1941 (the shoe industry's record year).

Whether even this projected rate of production can be maintained is not certain. The sharp drop in cattle slaughter, both in this country and in Argentina (which accounts for the bulk of imports that supply 15% of the U.S. hide market), has cut into the shoe leather supply. If cattle slaughter doesn't pick up, a further slash in shoe production may be necessary.

More without Coupons—OPA probably won't decide until mid-October whether the present rate of rationing-three pairs of shoes per person annually—can be maintained. Last month, rationing regulations were relaxed to allow the trade to dispose of small quantities of slow moving shoes without benefit of coupons. There's a good chance that this gesture will be repeated periodically,



SELLING BY SYMPHONY

RCA president David Sarnoff, Dr. Frank Black, conductor of the NBC orchestra, and General Motors president C. E. Wilson hold a prebroadcast conference just before G. M.'s first symphonic program goes on the air. With broadcasts scheduled every

Sunday afternoon at 5 p.m. E.W.T. over NBC Red, General Motors becomes the second big national advertiser in as many months to seek to capitalize on America's growing appreciation of good music. United States Rubber Co. sponsors the New York Philharmonic over CBS Sundays at 3 p.m.

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The Army has ended specula-on about the future of the evens Hotel, bought a year ago W-Jan.2'43,p18) to house 000 technical trainces. The otel itself and the adjoining evens Bldg. are being offered r sale. Army Engineers in Chigo will accept sealed bids for ne property until 2 p.m., Sept. 4. Built in 1927 at a cost of \$26,otel was stripped of its civilian unishings and they were auctioned (BW-Feb.27'43,p70). How to efurnish the 3,000 rooms in a eriod of drastic shortages is the irst problem that will confront he successful bidder.

The Stevens was the of the 435 b-

OPA he government as living quarters or trainees which was purchased utright (BW-Jul.10'43,p28).

> the amount of shoes involved is small.

Dealers were allowed to unload only of their inventory of women's es, 1% of men's shoes, and 2% of in-ts' and children's. Because they were red to slash prices, many retailers as good n't take advantage of OPA's offer. Noncritical Materials—WPB estimates it production of shoes made of non-ical materials (and therefore unrathe inces on a was de in qual up and ned) is now at the rate of about 1,-0,000 pairs a month. But beginning ot. 1, these will count as part of

t. l, these will count as part of civilian nufacturers' quotas.

In spite of consumer howls about the qualities of shoe rationing, OPA has a present plans for revising it on a s). The present plans for revising it on a 2 (44), sint or any other basis. The refinemts wouldn't be worth the administive headaches. The price agency away that prerationing sales figures rate of sowed that the average woman wore is not a pairs of shoes a year, the average an only 2, but family pooling of country and the state of the shoes a year, the average and only 2, but family pooling of country and the state of the shoes a year. ns is expected to make up for any rdships. Also ration boards have been structed to tend toward leniency in anting extra coupons.

&P. INDICTMENT STICKS

Last week the Great Atlantic & Pa-Last week the Great Atlantic & Pafic Tea Co. released its annual finanall statement proudly reporting a reted net earnings rate of only 0.79%
as last of \$1,471,177,992 as compared
ith 1.21% in 1941. No sooner had
&P. made its public relations gesture
an an unappreciative federal appelte court declined to uphold a northern
exas District Court that had dismissed

"Copper" Homes Can Buy More Bonds

Use of copper and its alloys in home construction reduces maintenance cost to a minimum—saving time and money for war busy homeowners of World War II.



"Copper" Home

Keeping Upkeep Down

Many a far-sighted homeowner can buy extra war bonds with money that his less fortunate neighbor must apply toward home maintenance. When building his home some years back, the owner who's saving now was the one who insisted on rustproof copper and

As a result, it's easier and less expensive to keep this home in tip-top shape. The brass or copper piping . . . the copper gutters, downspouts, flashing . . . the bronze screens and hardware are free from rust attack and the resulting repairs and replacements.

Today, of course, all production of Anaconda Copper and Brass goes to war, but postwar builders will benefit from The American Brass Company's continuing research in the realm of new alloys, new applications and new production techniques.

V for Versatility

The Allied symbol of Victory in World War II also stands for Versa-America was able to swing swiftly into all-out production for war because American industry knew how to convert factories from peace to wartime use almost overnight. This ability to change over is hastening the day of victory.

Examples of industry's amazing conversion to war production are countless, especially in the field of copper and brass fabrication. A former producer of washing machines turns out intricate bomber parts. A vacuum cleaner manufacturer is making time fuses. A plant. that formerly made safes and locks produces gun mounts and projectiles. A firm that specialized in brass compacts and lipstick holders now concentrates on brass primers for artillery shells.

The American Brass Company, oper-

ating 13 U.S.A. and Canadian plants, provides many of these converted factories with copper alloys for the products they now make. In addition, the company turns out tremendous tonnages of cartridge brass and gilding metal cups and discs which are used in the manufacture of small arms ammunition and shell cases.

Oldest, Most Useful

Copper, "man's oldest and most useful metal", is more precious than gold in warfare. Wars have been won by nations with little gold — witness our own Revolution - but no nation can fight a modern war successfully without a vast amount of copper and its alloys.



Axis Tamer

Not only is copper vital to the Army, it is even more important to the Navy. Without copper alloy condenser tubes a modern battle fleet would be immobilized. Communications, fire control, every operating element of a warship depends on copper. Even the big guns depend on copper for accurate firing, each projectile having one or more driving bands made of copper or a copper alloy.

Even in the old days of wooden ships and iron men, the Navy sheathed its hulls with copper for protection from marine growths and parasites.

To keep abreast of the wartime needs of our Navy and other branches of the fighting forces, plants operated by The American Brass Company will fabricate this year considerably more copper and copper alloys than in any previous year. For this achievement every one of the many thousand U.S. employees has earned the right to wear the "E" pin and to see the Army-Navy "E" pennant flying over his plant.

Published in the interest of a better informed war effort by

THE AMERICAN BRASS COMPANY ANACONDA

General Offices: Waterbury 88, Connecticut . Subsidiary of Anaconda Copper Mining Company



Recognized throughout industry for their outstanding qualities and performance

In the field of mechanical dust collection, the van Tongeren cyclone, (used exclusively in Buell Dust Recovery Systems) has proved notably efficient and economical for the elimination of hazardous dust nuisances and the recovery of valuable material in

CHEMICAL & PROCESS INDUSTRIES
FOUNDRIES & MACHINING OPERATIONS
FOOD PROCESSING
ROCK PRODUCTS INDUSTRY
POWER PLANTS
MINING & METALLURGY
and other industries

BUELL ENGINEERING COMPANY, Inc.

WRITE FOR BULLETIN G-842

BUY WAR BONDS AND MAKE THE AXIS BITE THE DUST

an indictment against the chain (B) Dec. 5'42,p69).

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The court remanded the case for ther proceedings against A.& P. on ground that there was insufficient of for quashing the indictment with charged violation of the Sheiman Attrust Act by conspiracy to monopal interstate commerce in food. In the ing out the case originally, the long court had ruled that the Dept. of tice's indictment was inflammatory a prejudicial because it was vague and definite, and that the venue was a properly laid.

Reversal simply means that the a will start all over again in the distriction court, because as the appellate on stated "while the information is measit is not so meager as to require quaing of the indictment . . . since fall information could, and if request should, be supplied by a bill of paticulars."

Meanwhile, Safeway Stores, Inc. as the Kroger Grocery & Baking Co. as worried about reversals on decisions which a Kansas City district court take that similar indictments against Safewa and Kroger were vague and that the venue was not properly laid (BW-Juli '43,p8). Chances of reversal are, a course, materially improved by the latest D. of J. victory against A.&P.

G.E. ASKS ABOUT MODELS

Consumers were given a hand in a other postwar blueprint when Gener Electric asked its more than 225,00 stockholders how they would like the refrigerators, electric ranges, washin machines, air conditioning, and electric blankets—when they can get them again

General Motors pioneered the customer question bee a decade ago, and the practice is now well on its way to becoming a standard technique in sampling postwar tastes. Questionnaires, a lustrating various model choices, has already been distributed by the Florent Stove Co. (BW-May8'43,p74) and the Crane Co. (BW-May15'43,p94).

General Electric asks its consultants to choose between these proposed style which were on its drawing boards before the war but never placed on the market (1) a round refrigerator with revolving shelves or a rectangular one with slidin shelves, (2) four kinds of refrigeratorsa regular household refrigerator which will accommodate half a dozen package of frozen foods, one with a large frozen food compartment to hold a week's su ply of frozen food in large economy packages, one with a separate frozen food storage cabinet and another cabi net for quick freezing and storage, or walk-in cooler with built-in freezer, (3) table top model stoves or high-oven models.

G. E. also asks advice on electric dishwashers, garbage disposal devices, wash

machines, dryers, electric irons, air ditioning at \$200 a room, mixers, uum cleaners, alarm clocks (bell, zer, or musical notes), and vacuum

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WER CIGARS, BUT BETTER

American men are smoking fewer ars, but their tastes are running to more expensive varieties. In June, olesale cigar sales amounted to 449,-6.954, or 15.5% fewer than in June, 12, according to U. S. Treasury tax hdrawal figures compiled by the Ci-Institute of America. The loss was cigars retailing at less than 6.1¢ (.8%); those selling above that figure vanced 79.2%.

The trend is discernible in the disntinuance of some of the low-priced dels (Ameradas, Spencer Morris ites), in diminishing supplies of othand in a shift of promotional effort higher-priced cigars. Makers of Bayuk illies, laboring to keep abreast of litary and civilian demand, are pusha 10¢ de luxe model. Cigar stand mers report that supplies of Phillies, hite Owls, and other better-known smokes are becoming smaller and

Cumulative figures for the fiscal year ded June 30 emphasize the shift to e more expensive cigar and the drop total volume. Total sales for the year ere 6,002,765,674, as compared with 102,836,687 the preceding year. igher-priced cigars constituted 17% of e 1942-43 total, as against 10.8% the eceding year-1,022,613,332 against 1,576,367.

ETAIL OUTLETS ADDED

A likely pattern for postwar mail order erchandising was indicated recently hen both Spiegel, Inc., and Chicago aires, lail Order Co. announced plans for es, had beening retail outlets, following a lead ell established by Sears, Roebuck & Co. and the dd Montgomery Ward & Co.

New vice-president in charge of reil sales at Spiegel is John W. Miller, r ten years merchandising economist Ward's. In announcing his election y the board of directors, Spiegel indited that its first excursion into retail lling will be cautious; for the duration may not involve more than two or

which aree stores.

The company opened its first two frozen stalog order offices, both in Chicago, talog order offices, both in chicago, frozed stalog order offices, both in Chicago, ist month. This aspect of its localized ching may progress faster than actual frozen stall stores, because it requires no additional merchandise investment and the physical store property.

Chicago Mail Order Co.'s retail outstallize on a trade name which has its dishing identified its top-quality merchanise.



"Will we have long to wait, Steward?"

"No, sir, just a few minutes. We've got an extra heavy load this trip, including a lot of soldiers and sailors. And as you probably know, a large part of Seaboard's dining car equipment is being used on troop trains. 33

66 I guess we civilians haven't any kick about that, it's up to all of us to put the war effort first."

KEEP ON BUYING WAR BONDS AND STAMPS Remember, there's no let-up, no time-out, for our fighting men

SEABOARD RAILWAY



THE REGIONAL MARKET OUTLOOK

A summary of industrial, agricultural, and other trends affecting the income and general business prospects in twelve Federal Reserve districts of the nation for most recent month. (Last month's report: BW-Jul 3'43,



· Boston-One index of the intensified manpower problem in this industrialized region is the drop in employment levels below a year ago recorded recently in arms-dominated Hartford County, Conn. Sign of the spread of the pinch to eastern consumer goods areas is the reclassification of textile-making New Bedford as a critical shortage center. Job rolls in all areas now are flattening out. An especial laggard is the shoe industry, which is short both of hides and of labor. Resort sections, however, are experiencing peak seasonal business comparable to pregas-ration years. And Burlington, Vt., will benefit from a new plant to employ 4,000.

Dairy and poultry farmers are squeezed be-

tween diminishing feed supplies and fixed prices, and black market income from sales is offset by black market losses from purchase of feed. But Maine potato growers, already prospering, figure to harvest a 25%

larger crop this year.



• New York-Another recent upturn in the proportion of total contracts awarded to New York State in general and New York City in particular points up the increasing attention being paid to the remaining unused labor reserves which could be brought into the war effort in this laggard region. The boom continues in such upstate centers as Buffalo, Syracuse, Utica, Schenectady, while metropolitan employment rolls advance slowly, not only in the "big city," but also in northern New Jersey, southwest Connecticut, and Long Island-war areas close to peak utilization of labor.

Agricultural income also is trailing. Though pasturage is excellent, hay crops may be off, and dairymen have a corn-feed problem. Fruit crops-pears, peaches, grapes, apples, cherries-were harder hit in this district than in most. And egg output has not increased as swiftly as it has in other agricultural

sections.



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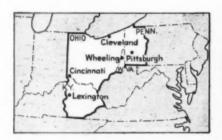
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nit.

• Philadelphia-This income-lagging reg can boast of more than the Philadelphia dustrial-metropolitan area, where pay have kept pace with the national average can point to a boom state all its own-D ware. Nonfarm employment there is 10% over 1942 as against 5% for the nati chiefly because of expanded shipbuilding and about Wilmington. In addition, receipts have outstripped the nation's. De ware is among the few states to score population advance since 1940 (page 42).

But, most district cities outside the Ph delphia area still are trailing in payroll tals; among the few exceptions are Lanca and Williamsport. The sluggard hardarea continues to improve, not only beca of greatly enlarged demand for anthm but also because arms plants are being cated at Scranton and nearby towns. Pen vania farming sections continue to ret

below-par income gains.



 Cleveland—Manpower shortage still dominates industrial prospects in this region. But it's significant that incoming orders have fallen off sharply, not only for machine tool makers but also for other machinery, small tool, foundry, and construction equipment lines. In steel, the concern is over coke capacity now, and because of laggard Great Lakes ore shipments, over iron supplies next spring when stockpiles will run out. Ceramics and glass container output is high, but textiles, paperboard, and other civilian lines increasingly are being pinched by the shortage of labor.

Meanwhile, factory payrolls are rising approximately in step with national totals as hours stretch and workers move to higherpaying lines. Farm receipts are being padded with some black market profits, though marketings through regular channels are not yielding the same sharp gains as in some

other regions.



• Richmond-Production in what used to be this district's chief industrial lines-coal, textiles, lumber and paper, etc.,-is now being diminished in greater or lesser degree by the shortage of manpower. Though construction work has fallen sharply from the 1942 high, and though shipbuilding and government employment are now tending to stabilize, the uneven distribution of labor reserves and the complications of price ceilings are limiting manpower use. Job gains over 1942 still are above average in Virginia and more particularly Maryland, but are hardly phenomenal elsewhere. West Virginia actually shows a decline.

Farm receipts in all states are keeping pace with the national average. But tobacco and cotton harvests are apt to run below bumper year-ago totals, and labor is a bot-tleneck in northern truck and livestock-producing sections. The over-all income trend is running towards nearer-average rises.



 Atlanta—Growing conditions so far f season have been fairly favorable. In a case, district agriculture is less vulnerable weather now, due to the accelerated shi during the war years from cotton and bacco to soybeans, peanuts, potatoes, d So far, receipts have not been up uniform and total regional farm returns have train the nation's. Autumn prospects are bright

Industrial activity is still marked by drop in construction and the steady rise armaments. Indeed, war production will pand more sharply in this region than most during 1943. Synthetic rubber, at tion gasoline, and magnesium works are no coming into production in Louisiana. Sh building along the coast and aircraft man facture in the major district cities are chief stimulants. Altogether, district inco may outstrip the nation's this year, but t variations will be marked from section section.

A GUIDE TO INCOME TRENDS

Veather improves crop prospects, but not up to 1942 bumper yields; price gains will offset the reduced harvests, howver. Manpower continues to pose problems for war production areas scheduled to expand munitions output.





Chicago-Gains over 1942 in farm income eged behind the nation's so far this year. or one thing, livestock was held off the arket only to be flooded into stockyards w. However, feed supplies cannot support gher livestock production, and that points a flattening in total beef, pork, milk, and oultry receipts soon. This holds even ough corn, especially in Iowa, is recovering ongly from excess spring rains, and soy-

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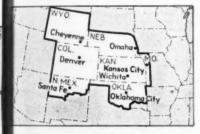
an yields promise to exceed 1942's. Arms activity continues to push to new ghs, but manpower difficulties are now beoming acute in such large centers as De-oit. Chicago is booming as engine and rgo plane plants come into operation, ugh employment is easing at nearby steel wns. Payrolls in Milwaukee and Indianapis are tending to flatten out at levels well ove a year ago. Iowa output is not up so parply as in other states. Income here still s almost up with the nation's.

• St. Louis-The crop outlook is improved but is far from bright. Tobacco acreage is up, and rice prospects are good. Sharp drops are likely in corn and hay harvests. Fruit and truck crops also are down sharply from 1942. Cotton acreage is off, with yields likely to suffer from the late season. To top all, livestock breeding rates here are running below the national average. Altogether farm re-ceipts in most sections—though perhaps not in Kentucky burley country-are apt to trail

Employment gains also are running lower than those in other sections of the country, and the curve of total district income has not been advancing as quickly as the index for the nation as a whole. However, the St. Louis industrial area is doing as well as most; Louisville, Memphis, Little Rock, and Pine Bluff are above average; Evansville's boom in the last year has been unusually spectacular.

• Twin Cities-Farmers here aren't expecting to duplicate 1942 results; wheat acreage is up 10% over last year, but crop estimates are down 10%. Corn yields also will be off. Expectations were that South Dakota would be hardest hit, but improved weather has raised hopes again. If conditions continue for the better in the next two months, the farm outlook generally can improve spectacularly. In any case, boosts in flax acreage and harvests will help. As for current reccipts, the Dakotas have been exceeding most states' gains, with Montana average, Minnesota and central Wisconsin now behind, But, whether the district will surprise

again, as in the past two years, by keeping up with national income curves, will depend on autumn harvests. Certainly war work continues at a minimum. The Twin Cities have the bulk of what contracts there are, and employment is up enormously also at Eau Claire, Wis.





Kansas City—Though corn crop estimates ill run below last year's bumper harvest, reent weather has improved prospects. What's ore, even if corn yields run as far behind 942 as the now-harvested wheat crop, retipts will not be affected because prices of the grains are now about 25% above 1942 wels. Except in laggard Wyoming, ineases this year in farm income run between 0% and 50%, well ahead of the national erage. Livestock products, which still acwe been returning excellent receipts, but nees recently have dropped off, and suplies of protein feed are running short. astures, however, are in good shape.

Even in this region of extraordinary warnt expansion, the armament boom has st about reached its peak. A few major lants have yet to come into operation, but instruction work has dropped off, and emloyment in some sections is leveling out.

• Dallas-Petroleum again moves to the forefront in this chief producing region. Output has risen 25% above 1942, due to improved transport and sustained demand; it will gain further. But drilling is still at a minimum for lack of price incentive. Mean-time, production of rubber, aviation gas, etc., is accelerating along the Gulf Coast.

Cotton prospects are reasonably good for this stage, but where picking has begun labor is short. The trend is sharply towards more mechanical harvesting, which results in inferior grades. Sorghums, wheat; oats, rice, peanuts, and potatoes will be up from 1942. Because beef-hog-corn price relations are unfavorable to finishing, cattle have not been moving to feed lots; but the temporary drought which flooded animals off pastures into slaughter has been ended by rains. Meanwhile, civilian employment at arms plants and military bases continues to gain strongly.

• San Francisco-Agriculture, which still accounts for a sizable segment of district income, is continuing to yield gains in receipts over year-ago levels of at least average proportions, due to the impact of excess national purchasing power on returns from fruit and vegetable crops. Most crops this year will be off in volume from last year, but the price factor will more than com-

Meanwhile, despite a 9% increase in civilian population over the past three years-as against a 2.4% decline for the nation (page 42)-this district's industry continues to be beset by manpower difficulties, the most recent acute case being of Boeing in Scattle (BW-Jul.31'43,p80). Expansion is still under way in petroleum, rubber, steel, shipyards, and aircraft plant facilities. Worst hit by the shortage of manpower are canning, lumbering, and mining-former standbys in the district.

usiness Week • August 7, 1943

Marketing • 87

COMMODITIES

Soybean Tangle

Everybody wants a better marketing setup than last year, and problems are tough. Use of oil in nonfoods is banned.

During the last war, a large quantity of Manchurian soybean oil was imported to relieve U. S. shortages of oils and fats. Nobody liked it; nobody knew how to use it; almost everybody was ready to write it off as a flop. The food industries were certain, from their ersatz experimenting, that soybean oil could never be refined to be fit for food products, damned it as destined only for industrial uses.

• For Food Only—Since then, its standing has so improved that two months ago the War Production Board, facing an acute shortage of edible oils, ordered that no soybean oil can go into any nonfood product. Actually, only a small fraction of total domestic soy oil production had been going to other than table uses for many years.

But this nonfood fraction was a sub-

But this nonfood fraction was a substantial tonnage. Hence the order spread consternation among makers of paints and varnishes, linoleum, foundry core binders, and dozens of assorted inedible products in which this oil had been a major constituent.

• One Day's Topic—An impressive index of how far up in the world this workaday Oriental legume has come was a meeting held last week in Chicago. Summoned by the Commodity Credit Corp. and the Agricultural Adjustment Agency, 250 men who are leaders in today's half-billion-dollar soybean industry sweated through an all-day session in a steaming room. They talked solely about the 1943 bean crop.

Attendance included the head soybean men of such potent food firms as A. E. Staley Mfg. Co., Archer-Daniels Midland Co., Allied Mills, Central Soya Co., the Glidden Co., Spencer Kellogg & Co., and Swift & Co. But also there were country clevator operators, agricultural college experts, and dirt farmers, particularly from the four Corn Belt states—Ohio, Indiana, Illinois, Iowa—which until last year produced and processed around three-quarters of all U.S. soybeans.

• "What Do You Think?"—The meeting was intended to settle nothing. It merely permitted the bean trade and the Washington officials to exchange views. But theirs was not idle talk.

CCC last year controlled every bean that entered commercial channels from the instant it left the elevator until as oil and meal it was sold to users. Serious mistakes brought down upon CCC the ire of everybody from the country elevator operator who lost money at his 3½¢ to 4½¢ a bushel handling charge to the cattle feeder who could not get soy meal because he was not a regular customer of the feed store which handled government meal.

• CCC Must Deliver—Washington consequently wants to interfere just as little as possible but cannot possibly withdraw completely. Soybeans are a major factor in the war food program for fats and oils. Farmers boosted bean acreages on Sec. Claude R. Wickard's promise of big prices. CCC must make good on this covenant and still hold products beneath OPA price ceilings.

The Chicago meeting explored ways and means. CCC wants to let the trade take over. The trade wants to foster this conciliatory attitude. Everybody knows that otherwise CCC will buy all beans, give the processor a fixed margin on his tonnage, and require so many reports that little time would be left to crush beans.

• Risky Business—CCC is setting the support price of No. 2 beans at \$1.80 a bushel, f.o.b. point of origin. The price of meal will probably be \$45 a ton, f.o.b. Decatur, Ill.; oil will likely be \$11.75 per hundredweight.

The processor cannot sell his product

more than 60 days ahead, not is the any futures market in which to held his commitments. If beans should invery much above the support price upon which the entire deal is based, the crusher would have to shut down or ellose his shirt.

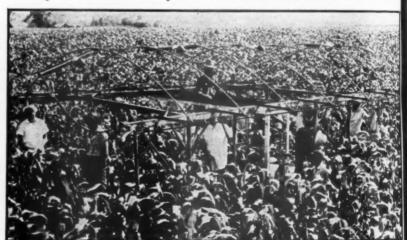
• Ceiling on Beans?—The industry hoping it gets as a safeguard a ceiling on the beans themselves. At the same time, realists recognize that Washington must postpone a ceiling until it too late in the season for the farmer tout his soybeans for hay.

Last year's margin, beginning at 22, per bushel to the largest, most efficient mills, looked pretty thin. Actually, processors did well because meal unexpectedly soared to the ceiling, resulting in what amounted to a bonus.

Profitable Damage—Also, for the first time, the industry had to take a huge tonnage of damaged beans—at discount set years earlier by pure theory. Milling proved these discounts actually profitable for the crusher.

But 1943 damage discounts have been lowered. Flat prices for meal and oil are assumed. With no give in sight and with processing costs upward bound crushers are praying for a 25¢ minimum margin, are guessing they will get 22¢ to 25¢.

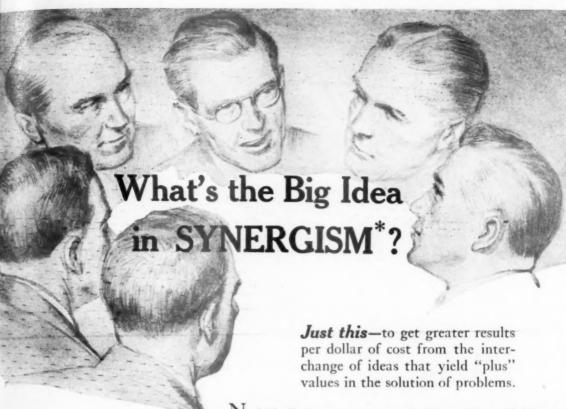
about prospects are the elevator operators. To sweeten up farmers, CCC laspring tacked on a brand-new idea opremiums for low moisture contenuow dares not back down. The countrelevator man demands savagely how hear run a moisture test that takes 3



SAVING THE SEED

Production of hybrid corn for seed requires years of inbreeding before the final crossbreeding to get the desired strain. This means controlled pollinization through all these generations. Labor of many careful hands is required—a requisite the seed men were a bit dubious of meeting this

year. School girls from half a dozen Corn Belt states saved the day for Lester Pfister, El Paso (Ill.) hybrid seed raiser. Working from a detasseling platform (above), the girls snap the tassels from alternate rows at the silk stage for the hybridization. These detasseled rows are fertilized by pollen of parent stock in adjacent rows, producing ears to be used as seed.



No field affords greater opportunity for synergistic thinking than chemistry. Here the interchange of ideas in overcoming problems can uncover a world of "plus" values . . . new and better ways to make old products, new uses, new advantages, greater selling values.

Consider the case of some deodorants made with an emollient cream of the oil-in-water type. Such deodorant compounds are subject to evaporation and crystallization. Shelf life is shortened, as is home use because crystals form to scratch the skin, and creams gradually harden and crack. The manufacturer has a problem.

Atlas has developed an emulsifier known as Arlacel C which provides a synergistic approach to the problem. Arlacel C gives a water-in-oil cream which is non-irritating and remains free from crystals because it does not dry out. This will answer the problem, but the net result is even more—a "plus" value because creams made with Arlacel C have a smooth, cosmetic feel, are stable, act faster and more uniformly and leave a thin emollient film on the skin after application.

Synergism gives a "2 plus 2 equals 5" result. Arlacel C is one of a group of Atlas emulsifiers. Their range of usefulness is limited only by the number of emulsifiable products and the synergistic thinking applied to them.

If you have a problem within the scope of Atlas products, we would like to try synergistic thinking with you.

n total of the ideas expressed "2 plus 2 equals 5" result. nergism is a big help in king product improvements.

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bring victory closer. It will also smooth the way for quicker change to the products of peace. Get acquainted with the compact

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minutes on each of 100 to 150 loads of beans received in a h tumn day, meanwhile weighing loads, dumping them, and part farmers.

Nobody is proud of last year handling of soy meal feed. Panick the world's record meal output in pect for 1942, Washington set and ceilings very low. CCC subs the entire crop and even prepar dump meal into fertilizer.

• The Canny Feeder-Processor hard to prevent being swamped. stockmen got the point of cheap part and high livestock, bought all the meal they could, and fed it waste Presently soy meal was short and been ever since.

Hence CCC's current intention protein prices in a more stable rela ship to corn, with the probable of soy meal around \$45. To enough farmers to market their beans inste feeding them direct, priorities are i wind to let the producer-feeder back his feed requirements up h bean production.

• Up and Up and Up-Soybean pm tion has risen steadily from under 000,000 bu. in 1924 to over 200,000

		Acreage (000)	Production (000 bu.)
1934		1.539	23.095
1935		2.697	44.378
1936		2,132	29,983
1937		2,549	45,272
1938		3,105	62,729
1939		4,417	91.272
1940		4,779	77,374
1941		5,855	106,717
1942	(est.).	10,762	209,00
1943	(goal)	12,000	220,00

The industry openly doubts that I output exceeded 180,000,000 bu the 200,000,000-bu. goal had l reached, processors say, they would be scurrying around for beans to until the new harvest or imploring to sell them government beans.

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· Late Plantings-Likewise, the trad guessing a 200,000,000-bu. maxim crop for 1943, even though acreage probably 3,000,000 above the food a Late planting in the wet spring me green damage if frost comes early.

Crushing capacity of the process with plants from Ohio to Iowa climbed every year, even in warti The northern industry, which incl the dozen biggest outfits with 80% total U.S. capacity, estimates it handle 120,000,000 bu. of the 150,0 000 bu. which will be processed in the 1943 crop.

• Where Subsidy Comes In-Ho 30,000,000 bu, will have to go to so ern and Pacific Coast cottonseed copra crushers who also helped out the 1942 beans. Since these mills less efficient in crushing soybeans, Cl will necessarily subsidize their open

General Motors Corporation (24 Divisions)

B. F. Goodrich Company Goodyear Aircraft Corp. Grumman Aircraft Engineering Corporation Hercules Powder Company

Hercules Powder Compan Houde Engineering Corp.



THAT'S A BUILD-UP FOR A SMASH-UP

TEW to the job, this young worker has stacked the chain high on the hook that it can p and crash the load.

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Industrial inexperience d carelessness of all kinds use two deaths, plus 200 n-fatal accidents, per ur. Last year there were 500 deaths and 1,750,000 n-fatal on-the-job acci-

The calculated sabotage enemy agents in America small compared to the voc wrought by loyal but expert workers. Managers dold-timers can help them

by telling them about the National Safety Council's organized "don'ts" for crane and hoist operation shown below. Our Wright

National Safety Council Suggestions for Safety in Hoist and Crane Operations

- 1. Don't load chain too high on hook-or on the point.
- 2. Don't wrap load chain around load.
- 3. Keep hands away from load and sling while load is hoisted and lowered.
- 4. Don't stand between moving load and fixed object.
- 5. Keep out from under load.
- 6. Don't deposit load on inadequate support. Provide stops to retain stock which might roll.
- 7. Keep angle between sling legs as small as possible and see that hook will hold.
- 8. Make certain load can't tip or slide out of

and Ford Divisions of American Chain & Cable Company, makers of hoists and chain blocks, are convinced that these rules, faith-

fully followed, will largely reduce hoisting accidents.

Hoists and chain blocks are but two of a long list of products we make for Industry, Transportation and Agriculture, which are essential in peace, vital in war.

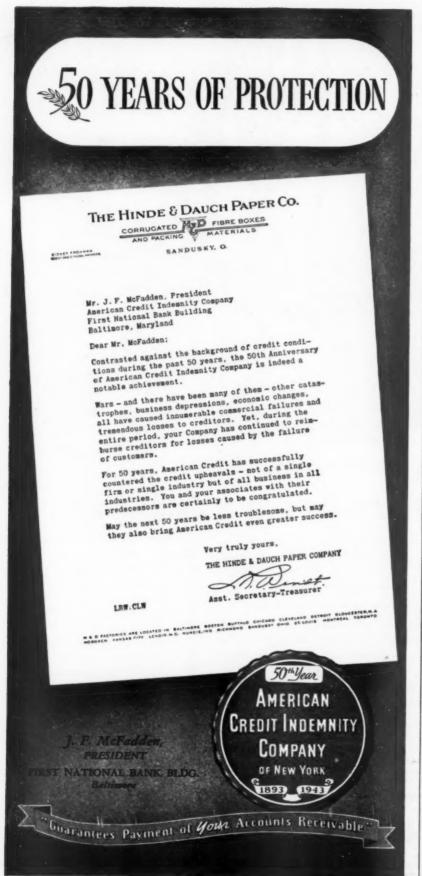
The American Chain & Cable Company is happy to cooperate with the National Safety Council in its nation-wide campaign to "Save Manpower for Warpower"-which is now being conducted at the request of President Roosevelt.

In Business for Your Safety

COMPANY, MERICAN CHAIN CABLE

IDGEPORT, CONNECTICUT In Canada—Dominion Chain Company, Ltd. • In England—The Parsons Chain Company, Ltd., and British Wire Products, Ltd. raft Controls, American Chain, American Cable Wire Rope, Campbell Cutting Machines, Ford Chain Blocks, Hazard Wire Rope, Manley lage Equipment, Owen Springs, Page Fence and Welding Wire, Reading Castings, Reading-Pratt & Cody Valves, Wright Hoists and Cranes

iness Week • August 7, 1943



tions. Probable disposition of the pected 1943 plantings of 15,000 acres with expected yield of 200,000 bu. is:

Hay, forage, and abandoned. Harvested as beans....

The wide spreads in estimates beans to be made into edible flour on because nobody knows what soy fin will be called upon to make up in a dietary shortages of protein in the United Nations, and in force rehabilitation. WPB has approved of struction, expansion, and conversion provide 30,000,000 bu. of flour-make capacity, and new mill buildings a going up alongside several of the independent.

try's larger plants.

• Soy Flour in Stores—Several of a larger processors are currently entent the domestic consumer market with g cery-store packages of soy flour wing if it catches on, will remove this property of the packages of soy flour wing if it catches on, will remove this property of the property of the processor of t

• British Market—Since July 25, the of 7½% of soy flour in all sausage been mandatory in Britain, and more than 37½% of meat. This cobination produces a sausage with ptein content 60% that of a full-ms sausage. (U. S. sausage makers may a use soy because its protein so closs resembles meat protein that chemis detection is difficult.) The British Fo Ministry is seriously considering a hear mandatory soy flour content in all breathers.

Staley introduced soy oil as a not edible industrial material and then cried through technical improvement until it gained tremendous acceptant in oleomargarine, shortening, and off food fields. Before WPB's prohibition nonedible uses were also gaining.

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• Loses out in Plastics—Major uses heen developed for Glidden's isolat soy proteins, particularly in paper or ings and paints. Plastic uses of soy pteins have been pretty well written by the industry as a mirage. Even Fo Motor Co.'s much-touted plastic am mobile parts now contain a very sm fraction of soy, and the most recobulletin of the Soybean Processors As reports that Ford is finally discontining use of soybeans in plastics.

At postwar altitudes...

25,000 feet





20,000 feet



15,000 feet

you'll feel no discomfort in the AiResearch-pressurized cabin!



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Outside, it may be an icy 70° below as your postwar airliner flies you at great altitudes

away above the storms. But in the AiResearch-pressurized cabin, you'll be as warm and cozy and relaxed as in your own den.

Even at 20,000 feet, you'll be free from common high altitude discomforts. With no sense of dizziness. No headache. No ear-popping.

Fantastic? Not at all! Since long before the war, a group of America's leading engineers have been working to perfect the pressurized cabin for airliners.

Much of this development work has been carried on in our "Stratolab," a gigantic airtight chamber which can put intricate air control devices through their paces in temperature below minus 90°F.... and in air as thin as that at 65,000 feet altitude!

When peace comes, thanks to such AiResearch engineering you'll be able to enjoy luxurious travel where flight is smoothest and fastest — high in the upper air.

Out of AiResearch's wartime experience will come other new conveniences for a peacetime world...devices that will add to better ways of living on land and sea as well as in the air.



"Where Controlled Air Does The Job" - Automatic Exit Flap Control Systems - Engine Coolant Systems Engine Oil Cooling Systems - Engine Air Intercooling Systems - Supercharger Aftercooling Systems



R for a crane

WRENCH, an I-beam, a 'Budgit' Crane Assembly A and an hour's time-with these you can build your own jib crane.

With another Crane Assembly an I-beam and a shaft you can acquire a bridge crane. There is no machine work to do, no holes to drill when building either of these. Nor do you need a skilled mechanic to do the work.

Simple, complete instructions are included with every Crane Assembly.

Quick deliveries are made (on priority) and your new crane can operate the day you receive the 'Budgit' Crane Assembly. Transportation costs are low as you buy the heavy parts, the I-beam or shaft, from the nearest source.

This is not an untried doubtful experiment. Thousands have been built for war work and they are doing the job all over the country.

Write for Bulletin 355 which contains full information of this quick, economical way to acquire jib or bridge cranes.



MANNING, MAXWELL & MOORE, INC. MUSKEGON, MICHIGAN

Builders of 'Show-Box' Crones, 'Budgit' and 'Load Lifter' Hoists and other lifting specialties. Makers of Ashcroft Gauges, *American' industrial instruments.

Silver Is Fungible

Foreign supplies, Treasury stock, and domestically mined metal are physically identical, but don't confuse them!

Silver is silver-fungible is the wordno matter where it comes from. Yet to WPB-and to you as a user of silverthere's a big difference between Treasury silver, domestically mined silver, and foreign silver.

· How It All Came About-The differences have arisen due to passage of the Green bill (BW-Jun.5'43,p19) which allowed the Treasury to sell about a million ounces of its "free" silver. This silver, under terms of the law, couldn't bring less than 71.11¢ an ounce. OPA already had a ceiling on domestically mined silver at 71.11¢ an ounce and a lid on foreign metal at 45¢ an ounce.

It was up to WPB, OPA, the Treasury, and advisory committees from all the trades that wanted to use silver to decide who was to get it, how much, and at what price. They've been laboring with the subject for weeks and only now have come up with the answers answers that won't bring any joy to the hearts of manufacturers of nonessential items made of the white metal.

WPB has drawn up three lists of users designated A, B, and C, which may be summarized as follows:

List A-Foreign silver may be used only in the manufacture of medicines and health supplies, in the photographic industry, in the manufacture of electrical contacts and other products or parts used for electric current-carrying purposes, and in certain miscellaneous products on priorities of AA-5 or higher. Price: 45¢ an ounce.

List B-Domestically mined silver may be ued at a rate not higher than 50% of the base period (1941 or 1942, whichever is higher) in making nonessential items, as stipulated in the original Order M-199, such as silverware; watch cases, jewelry, etc.; nonmilitary badges and insignia; church goods defined in Order L-136; slide fasteners, hooks and eyes, buttons, etc.; closures for containers; pens, pencils, and parts; toilet articles and picture frames; musical instruments; and electroplating for nonoperational purposes. Price: 71.11¢.

List C-Treasury "free" silver will be available only to manufacturers of engine bearings, official military insignia, brazing alloys, and solders. Price: 71.11¢.

Until this matter of the eligible users and the prices they must pay was ironed out, Treasury silver was available only on loan. Even then it was limited to nonconsumptive uses. About 700,000,-000 oz. had been released for emergency needs that won't destroy the metal.

• More Loan Silver-The Treasury can and will continue to lend silver, but this metal, which must be returned in-

tact after the war, isn't equal to deman To start with, the Treasury's own nee for ever-mounting coinage are large. dustrial demand is rising at the rate 5% to 10% a month. And the suppl of foreign silver coming into the count is declining (which can't be good ner for the users on List A who get the break of a 45¢ price only so long as the supply lasts). Finally, lend-lease requirements are described as substantial

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Under the circumstances, nonessential users probably would have been frozen out gradually if it hadn't been for the passage of the Green bill to take care of vital war needs. The non essentials have been drawing silver at the rate of about 30,000,000 oz. a year. • Prorate Hit a Snag-Originally, WPB and OPA had thought to prorate the price differential-let all users have a stipulated percentage of the 45¢ silver with the remainder of their allotments coming out of the 71.11¢ categories. This plan was sidetracked after protests of those who had been allowed to fill requirements with 45¢ silver, notably the photographic industry.

WPB limits the amount of silver that may be held in inventory, but it doesn't demand that the three classifications be kept separate. This represents a victory for Handy & Harmon, leading bullion dealer. Unwilling to keep in stock a large supply of high-priced domestic silver which would be constantly subject to political hazards, the firm followed a practice that was condemned by WPB's

Compliance Division.

• Substitute as Needed-Handy & Harmon simply kept on hand 45¢ silver. When orders came in for domestically mined silver at 71.11¢, the firm filled them out of the 45¢ inventory and then went out to replace the amount sold by purchase from home mines. WPB was afraid Handy & Harmon might be unable to deliver at times due to depleted inventory under this system.

Incidentally, 71.11¢ Treasury silver turns into 45¢ foreign metal when it has been reduced to scrap in the pro-cesses of manufacture unless the scrap remains in the ownership of the manufacturer who produced it.

SETTLEMENT ON LINSEED

Minnesota's linseed crushers are breathing easier. Their troubles under WPB's Order M-332 (BW-Jul.24'43, p100) have been resolved, apparently to the satisfaction of everyone.

The order, in effect, required at least 30% dilution of linseed oil, but an old state law said, "No dilution." It was compromised: WPB amended its order to include a minimum as well as maximum dilution limit, and the state agreed to wink at the letter of its law.

The industry's worry was that M-332 would open the way to excessive dilution and to production of inferior paint.

Commodities

Business Week . August 7, 1943

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combat Pipeline

Shell Oil reveals that it has applied the Army with portable anduit to carry gasoline right to front lines.

With all the pride of parenthood, ell Oil Co. this week unwrapped, as as War Dept. censorship would mit, its prize baby of this war for nited public inspection. It is a flexible, ortable pipeline, engineered so that it n be laid on top of the ground, by dinary soldiers, and controlled auto-atically at the delivery end, so that it not necessary to have any terminal orage facilities.

Automatic Controls-The trick in the as explained by Sydney Smith, hell's products pipeline manager who egan working on the idea when war roke out in Europe, nearly four years go, is full automatic control. (When ow is cut off at the delivery end, internediate pumps are automatically shut lown.) The technique, naturally, is a military secret, but it's no secret that uccessful application of the idea made "a material contribution to the success of our armies in the field." Those words were written in a letter of commendation by Brig. Gen. R. F. Fowler, chief of the Army Engineers supply division. First trial of the portable pipeline under fire was in North Africa. Although

military reports on the subject are vague, the inference is that one reason for successes in North Africa and Sicily was that the mechanized equipment was kept supplied, and that the portable pipeline was a vital link.

• Targets Minimized—Heretofore, gaso-line for front line fighting has had to be moved up by trucks; these trucks and the storage dumps often were splen-did targets. The Germans, it's reported, did have low pressure (about 250 pounds) pipelines of aluminum they used to transfer gasoline from tank cars to storage tanks in the field, but so far as known, they haven't developed anything to compare with the Shell line, which eliminates both tank trucks and advanced storage tanks for front line distribution.

The Shell line comes in 4-in. and 6-in. diameters. The 4-in. line delivers a maximum of 6.000 barrels daily, the 6-in. 10,000. Operating pressures are 400 lb. to 600 lb. per square inch, compared with commercial pipeline pressures of about 1,100 lb. The pipe is spirally welded of light, mild steel, can be bent around trees or up and down hills. Each section is exactly 20 ft. long and weighs

Business Week • August 7, 1943

"FOUR FREEDOMS" THAT RELEASE More Power for victory!

Freedom from friction . . . freedom from power-loss . . . freedom from wear ... freedom from maintenance . . . Dodge-Timken Bearings combine ruggedness, precision construction and smooth operating efficiency to bring those "four freedoms" to industry!

These rugged bearings give free-dom to power for full, unham-pered flow to production machines. They free plants from "power blackouts" caused by maintenance shutdowns...they free production schedules from slow-ups caused

by obsolete, worn out, friction-ridden bearings.

Delivered completely assembled, Dodge-Timken Bearings are ready for instant installation. Depend on them for 30,000 hours of uninterrupted service on jobs for which they are designed. Their original efficiency is preserved by lubrication that lasts throughout 50 million revolutions under normal operating conditions . . . and by built-in seals that retain lubricant and exclude dirt and other foreign substances.

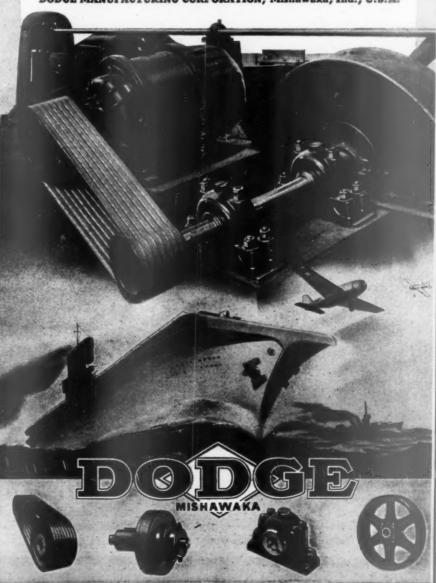
Now, and in post-war competitive production, give your plant the advantages of the "freedoms" Dodge-Timken Bearings and other

Dodge Power Transmission Equipment provide.

Contact your local Dodge Distributor or write to us for more information.

Throw All Your Scrap Into the Fight Buy More War Bo

DODGE MANUFACTURING CORPORATION, Mishawaka, Ind., U.S.A.



RIGHT DRIVE FOR 90 lb. Two men and a truck can lay eight to ten miles of it a day and make field repairs in short order with an ordi-

nary wrench.

• Self-Camouflaging—If there is doubt about a grade, says Smith, "put in too many pumps." They are ordinarily ten miles apart. The pipe camouflages itself by taking on an oxide (rust) coating; pumping stations are camouflaged carefully by the Army. An individual station can be repaired in a few hours. No communication system, other than patrols, is needed, because the valves, at half a mile to a mile apart, are regulated automatically, and a separate line is laid for each product.

The Army's first order, after tests in the Midwest and along the Skyline Drive in Virginia, was for installation on the Burma road. When the Japs took that, the 1,000 miles of pipe, valves, and gasoline-operated pumps were diverted quickly to North Africa. Cost of materials, without labor and transportation, was estimated at \$3,000

a mile.

• No Royalty Collected—Alexander Fraser, president of Shell, says the company is getting no royalties on its portable pipeline development. Although the controls were adapted from principles used on regular lines, and the variations may be useful later, a light, low pressure line is not regarded as having any commercial value in peacetime. In addition, the useful service life of the portable pipeline is held to be only about two years.

Ceramic Heater

Pittsburgh housing project meets equipment shortage with a built-in hollow-tile furnace based on German idea.

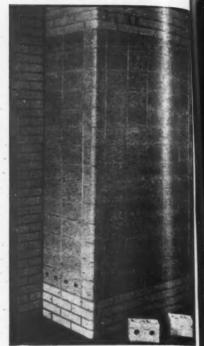
Another generation took the hot brick to bed. Now the brick is being built right into the house—at least until wartime shortages permit resumption of orthodox furnace production.

orthodox furnace production.

o Approved by WPB—The ceramic tile space heater which the Pittsburgh Housing Authority is installing in its Broadhead Manor housing project is an adaptation of the German-Swiss-Scandinavian "Kachelofen" and the hot-brick-at-thefect idea. Approved by the U. S. Bureau of Standards and the clay products division of WPB, the heater is built of hollow glazed tile around a small iron gate. It burns any fuel except gas and oil.

The heater is built in the center of a house, its exterior walls exposed to the rooms it is intended to heat. A flue conveys heat to the second floor. In the housing project, the fuel bin and the firing door are in the entrance halls.

• Tile "Ventilated"—Alexander Dzubay, Pittsburgh heating engineer who was familiar with the floor-to-ceiling Kachelofen, developed the heater at Carnegie Tech around a basic idea supplied by Dr. B. J. Hovde, administrator of the



Built-in tile heater developed for the Pittsburgh Housing Authority conserves scarce metals, while at the same time heating efficiently.

housing authority, and Michael Rosenauer, consulting architect on the project. In his first try, Dzubay used solid glazed brick, but this was slow in heating and developed terrific temperatures. Even the hollow tile was too hot until the engineer hit on the idea of allowing air to flow through the hollow tile through holes at bottom and top. This speeds up the time required for the unit to adjust to sharp changes in temperature, and prevents overheating.

The heating system is being installed in 316 of the 448 dwelling units—the smaller ones. It is not easily adaptable to a five- or six-room house because no method has been devised to transmit heat to rooms without direct exposure

to the walls of the heater.

EXHAUST HEAT DE-ICES

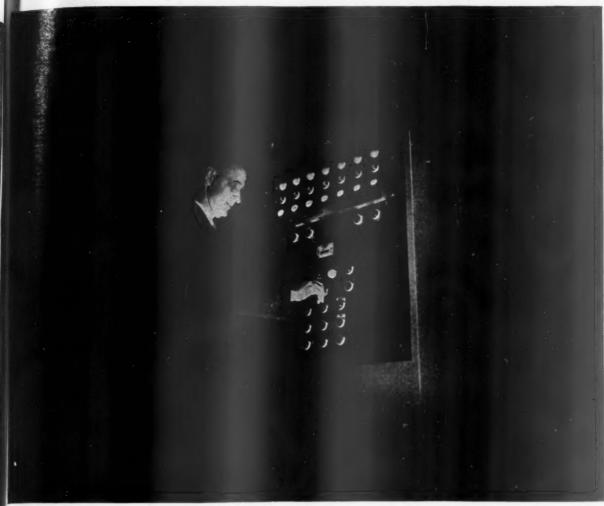
Development of a de-icer using the exhaust heat of an aircraft engine to prevent ice on the wings and windshield was announced this week by T. M. Girdler, chairman of the board of Consolidated Vultee Aircraft Corp. Various aircraft manufacturers have experimented with the idea of using exhaust heat for de-icing for a decade or so, but Consolidated Vultee is the first to put such a device in actual volume production.

Having been given trial flights on the Consolidated Catalina, the new device is expected to be installed soon on Lib-



Sydney S. Smith of Shell Oil (left) dreamed up a portable, flexible pipeline for military use. It came true in time to be an important factor in the preponderance of transportation that spelled victory in North Africa and

Sicily. Made of spirally welded steel, it weighs only 90 lb. per 20-ft. length, is laid or repaired with simple, two-bolt couplings by ordinary soldiers who do not require extensive special training in order to do the job.



M. A. Weckerly, Director of Toledo Research, dreams of devices that out-super Superman. And a gratifying percent of his dreams come true! Buckeye-born, Purdue-educated, a 26-year Toledoman, his knowledge of weighing and force-measuring fundamentals is both profound and prolific.

RESEARCH made finger-flips fight

● The flip of a switch, the push of a button were once simple gestures of peace. Then Research put them to work for War.

This deceptively peaceful control panel, for instance, monitors a great battery of weighing machines in their rapid and accurate batching of war chemicals and explosives. The fingers that flip these controls do indeed launch major offensives.

Toledo Research has worked, and is working, in many broad fields. Often the results may seem to be of little immediate importance. But the knowledge gained remains as in a reservoir to be drawn on when new problems shout for war-urgent answers.

The war service of Toledo electronic controls fully justifies the research which preceded their development. Their ready availability in these times of greatest need gives promise of what can and will be done by Toledo Research in anticipating problems of the post-war peace.

* * *

Toledo Dynamic "Electric Eye" Classifier... the principles of which were developed by Toledo Research more than 10 years ago... today weighs and sorts bullet-cores, at high speed, and to an accuracy of 2 of a grain.



TOLEDO SCALE COMPANY

Toledo, Ohio

Canadian Toledo Scale Co., Limited, Toronto, Ont.

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McGRAW-HILL MANUALS to help the secretary

gain speed, assurance, accuracy in taking technical dictation

Let Queena Hazelton, Teacher of Technical Stenography and Shorthand Reporter, make you a specialized technical secretary in your field.



One of these manuals will fit your needs.

I. THE AVIATION SECRETARY

Timely manual of terminology and shorthand outlines specially prepared to equip Gregg secretaries in the field of aviation for quicker results and progress. Covers terms and outlines in air navigation, meteorology, aerodynamics, power plant, air traffic control, radio and communications. 233 pages, \$1.50

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Teaches the secretary the terminology of various engineering fields—structural, mechanical, electrical, civil, chemical and metallurgical—provides practice in taking technical dictation of typical engineering character, and fulfills the need of the technical secretary for a complete glossary of the common and special terms and phrases of engineering with shorthand outlines. 309 pages, \$1.75.

3. THE MILITARY STENOGRAPHER

Offers excellent preparation and practice material for military stenography, consisting of Gregg shorthand outlines for military terms and phrases, solid-mater dictation, and glossary. Covers, with definitions and outlines, court reporting, court martial proceedings and terminology, military ranks and functions, and complete service phrase-ology. 133 pages, \$1.00.

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Expertly arranged to develop sound ability in handling naval and marine-engineering dictation. It saves precious minutes by supplying the brief Gregg forms for many frequently used naval terms, as well as providing a knowledge of the meaning and correct usage of technical naval language. 130 pages, \$1.00.

5. THE MEDICAL AND SURGICAL SECRETARY

Trains the Gregg stenographer intensively in the terminology of the anatomist and clinician. It includes solid-matter dictation preceded by technical previews consisting of shorthand outlines and pronunciation and followed by glossaries. A full treatment of Greek and Latin prefixes and suffixes is included, and the use of medico-military terms is featured. 358 pages, \$2.00.

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Company .				BW. 8-7-43

erator bombers and Coronado flying patrol boats.

De-icers now in use are essentially rubber boots which are inflated and deflated to crack off ice that forms on the leading edges of wings and tail surfaces. Principal advantage claimed for the new device is that it will keep the metal surfaces at a temperature of 60F even at flying temperatures of -40F, and thus prevent ice formation, which lowers flying efficiency.

Technical problems which had to be solved by Consolidated Vultee engineers, who worked in collaboration with Lewis A. Rodert, senior engineer of the National Advisory Committee for Aeronautics, at Ames Aeronautical Laboratories, Moffet Field, Calif., involved heat exchangers, satisfactory heat-resisting metals, and a system of ducts.

Now They're Safe

Steel-toed shoes for the women war workers finally are in production; only four types allowed, styles stipulated.

Since the woman war worker stepped out of Vogue and into the machine shop, she has been fast deglamorized. But now it can be said for the first time that she has been industrialized from head to toe.

• Full Speed on Safety Shoes—This week seven manufacturers began producing steel-toed safety shoes for women on a full-line production basis—at the rate of about 3,000 pairs a day. No quota has been set up, but production is expected to reach about 750,000 pairs a year. Manufacturers are producing shoes ac-

cording to specifications established be the American Standards Assn. at the request of the War Production Boar and the Office of Price Administration g then them,

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Since no lasts existed which would incorporate a steel box in a woman shoe, WPB wanted to keep machine requirements at a minimum. Therefore A.S.A. prescribed styles as well as con struction standards for women's safety-toe oxfords, (2) high shoes, (3) explosive operations (nonsparking) shoes, and (4) conductive shoes (models designed to dissipate static elec tricity). To date, only the oxfords are on regular production schedules; others are ready for delivery only where need is most critical.

• Former Types Out—Previously, women's safety shoe models designed by
various individual manufacturers, have
had either plastic or fiber toes which
have only about one-seventh the compression resistance of steel, giving the
worker what safety engineers call a
false sense of security. They maintain
that only a steel toe is safe for women
doing work for which men are required
to wear steel-toed shoes.

Furthermore plastic and fiber toss can be made much more stylish than steel, thus inviting rationing violations. Under existing regulations, women who spend coupon 18 for dress or street shoes and require safety shoes on the job are eligible for an extra coupon.

• Limitation on Coupons—OPA announced some time ago that when stectoed shoes were available extra coupons would be discontinued for other models. Thus the ration-free market will be limited to A.S.A. standard steel-toed shoes, most of which will be sold through industry commissaries at a discount.

Some will be sold at retail however. New York's R. H. Macy & Co. is han-



Ration-conscious women war workers no longer have an excuse to tempt industry's most common accident hazard—talling objects—with open-toed sandals. Steel-toed safety shoes are available to them this month on a supplementary ration. Steel toes have a compression resistance of 2,000 lb.

g them now, and Thom McAn will them, mostly on a tie-up with faces, giving workers a discount when t in by employers. Retail prices will ge from \$5 to \$7, and commissary s may run as low as \$4.

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Who Makes Them—Manufacturers of safety shoes are International Shoe and Brown Shoe Co., St. Louis; bhard Shoe Mfg. Co., Rochester, H.; Gale Shoe Mfg. Co., Boston; F. McElwain Co., Nashua, N. H.; high Safety Shoe Co., Inc., Allenwn, Pa.; and Charles Cushman Co., burn, Me.

tillage Improved

Addition of shark liver oil and distilling byproduct used as the feed increases weighttaining, cuts blindness.

As long as the distillers made industial alcohol from corn, the stillage or the mash which was left made an acceptable cattle feed, rich in proteins. In the new and the stillers as well as other producers of the lessential industrial alcohol are using note and more wheat—and the stillage which is left isn't nearly so good a cattle ced (BW—Jun.19'43,p79). Cattle fed on wheat stillage fail to register normal ains, and there is marked incidence of bindness in the herds.

After nutrition experts traced the root of the trouble to the lack of vitamin A in wheat stillage, Blandford Bros., commission merchants in Louisville's Bourbon Stock Yards, began a series of adding shark liver oil to stillage used as cattle feed. Instigated by Joseph E. Seagram & Sons, the experiments, undertaken at the Blair Distilling Co., in St. Francis, Ky., proved so successful that last week Blandford Bros. obtained a whole carload of shark liver oil—at a cost of \$22,000. The initial shipment is expected to supply 50,000 head of cattle for three months.

• Recovery Program Launched—Proteins recovered from stillage, principally in the form of "d. d." or distillers' dried grains, are now so valuable as a source of cattle feed that the War Food Administration has launched a \$19,000,000 distillery feed project. Under the recovery program, the War Production Board last week relaxed its restrictions sufficiently to permit four distilleries to obtain the equipment necessary in the recovery of livestock feed. These distilleries are Schenley Distilleries, Frankfort, Ky.; Farm Crops Processing Corp., Omaha; Hiram Walker & Sons, Inc., Peoria, Ill.; and Joseph E. Seagram & Sons, Inc., Lawrenceburg, Ind.



6 West Fairchild Street

DANVILLE ILLINOIS

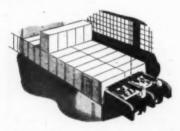
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FOR YOUR FELT HAT, life begins on a rabbit's back. But fingers couldn't handle the tiny, fluffy rabbit hairs that are formed by the million into a fine hat. Air At Work can, and does! Dries them, conveys them, piles them into felt, and even removes dangerous fumes and dust along the way! Here's how a rabbit gets pulled into a hat.,.



Long, coarse hairs are pulled away from the skins. "Carroting" the skins by means of various acids brings out the barbs on each individual fur fibre, calls for removal of the resultant poisonous fumes. But Sturtevant precision exhaust carries these fumes harmlessly away, protects workers.



Downy pelts-up to 16,000 of them an hour, are then dried. Sturtevant cut drying time from 24 hours to 15 minutes by precision control of temperature, humidity. Dried pelts are fed into a machine, separating skin from the fur. Fur is then sorted and sent to blowing machine, where dust and impurities are blown out.

3. Then air conveys the tiny fibres gently to a machine that's the last word in Sturtevant precision air control. It whirlpools fibres down onto a cone where the hat shape begins to form. This machine doubles production, greatly reduces health hazards. It "feels" the felt as it builds up, adjusts air flow for top quality .



The formed hood of rabbit fur is shrunk, Sturtevant removing the steam from that process. It is then stiffened and dried by Sturtevant controlled ovens. Last operations are block-ing and pouncing, calling for Sturtevant control of flying dust and fur.



DIFFERENCE BETWEEN RED AND BLACK in many a post-war plant's books will be use of engineered air to ventilate, heat, convey, air condition, control

dust and fumes, burn fuel more economically. Sturtevant is ready to work with you or your post-war planning committee to start solving these "engineered air" problems now.

B. F. STURTEVANT COMPANY Hyde Park . Boston, Mass.



NEW PRODUCTS the co

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Conveyorized X-Ray

X-ray photographs of six aluminum castings, up to 5 in. thick, for airplant engines and fuselages are snapped ever 30 seconds by a new Conveyorize X-ray Machine developed by Westing house Electric & Mfg. Co., Baltimore for a midwestern automotive manufacturer. A conveyor 3 ft. wide, which halts during exposures, carries trays of castings between two 12-ft. towers, or housing an X-ray tube operating at 140. 000 volts, the other with a 220,000-vol tube for thicker castings. The machine which can inspect over 17,000 castings a day for blowholes and other normal hidden defects, is not limited to the inspection of aluminum. .

"Mealpack"

The new Mealpack Container is not a lunchbox to be filled at home with cold foods, but an insulated carrier for hot and cold foods to be packed by caterers or plant kitchens and used a part of a system, developed by Meal-pack, Inc., 152 W. 42nd St., New York, for furnishing well balanced meal



to war workers at their posts. After the war, the same system may be extended to dinerless trains, buses, airplanes, schools, and so on.

Each container has spaces for three hot foods, a chilled salad or dessert, a hot or cold beverage, bread, cake, or pie, and eating utensils. Its cover, which is sealed with the plant number of the worker (who has a chance to order his menu in advance), comes off altogether to double as a lap tray. It is planned that trains of small trucks, each bearing 50 filled containers, will be hauled through a plant by a tractor and spotted in convenient locations. Tests indicate

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the container keeps food hot or r both for at least five hours.

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stics frequently have been plated gold or silver to make lightweight me jewelry with all the luster of metal. Now, however, the Preci-Paper Tube Co., 2023 W. Charles-t, Chicago 47, has worked out a plating process wherewith plastics, and other nonconductors (includexible and rigid plastic tubing) are with any plating metal.

is anticipated that wide use for the ess will be found in plating electric ratus of many kinds-radio shieldcondensers, electrostatic and magshielding-as well as articles in appearance is an important factor. said that "convex and concave surconvolutions, corners, and recesses s thoroughly plated as flat or simple d surfaces.

oratory Furnaces

atterned after its production furs, a brand new line of Laboratory used as Mealaces is coming from the Lindberg ineering Co., 2444 W. Hubbard St., cago 12; a box furnace for drying-cipitates, ash determinations, fusions, tions, etc.; a combustion tube type carbon determinations, organic analetc.; a crucible furnace for melting metals, thermocouple calibrations, hot plates for heating, distilling, ing, evaporating.

Il use low-voltage, high-temperature electric heating elements and the dberg "input control" for smooth, less heat regulation. The benchbox furnace has a production-type operating mechanism with handy side lever for quick operation.

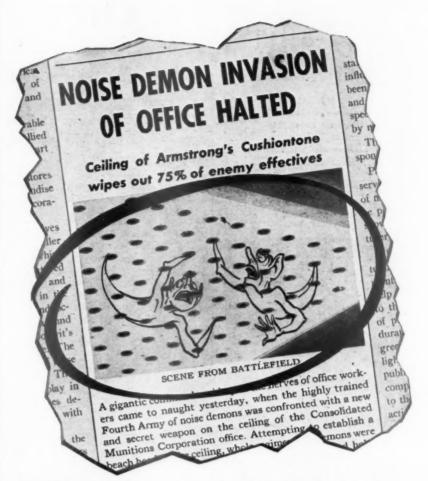
w Products Briefs

Also reported this week, not only for ir interest to certain designated busis fields, but also for their possible imt in the postwar planning of more or allied fields and business in general, the following:

Pulpmaking – Allis-Chalmers Mfg. Milwaukee, has equipped at least pulp mill with its new Hydraulic rker and Washer. It rotates logs ough powerful jets of water and across olving brushes which remove both

rk and dead wood.

Metalworking - Frostode Products, 003 John R St., Detroit 3, is bringing t the new Frostode Coolant Cooler heavy cutting and grinding operans. It may be described as a specialed electric refrigerator with a capacity 18 gallons a minute of coolant at 20F low room temperature. Since it is ounted on casters, it can be moved om machine to machine as required.



TOISE demons pop out from rattling typewriters . . . banging file cabinets . . . noisy conversations. They harry office workers and ruin efficiency.

But three fourths of all noise can be trapped when it strikes a ceiling of Armstrong's Cushiontone. Noise is killed . . . smothered . . . silenced . . . because the 484 deep, noise-thirsty holes in each 12"x 12" unit give Cushiontone a noisereduction coefficient as high as 0.75. Not even repainting (with ordinary paint and painting methods) affects this permanent high efficiency.

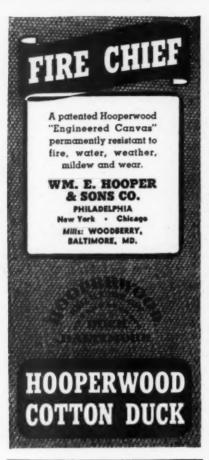
Armstrong's Cushiontone has extra advantages, too. It's surpris-

ingly low in first cost. It is quickly installed-often without any interruption whatever to office routine. Its attractive, ivory-colored surface reflects 73% of the light striking it. And maintenance is no problem at all.

Get this new FREE BOOKLET

Find out how Armstrong's Cushiontone has improved other offices and what it can do for yours. Write for your free copy of our new. illustrated folder, "How to Exterminate Office Noise Demons." Armstrong Cork Company, Building Materials Division, 3008 Stevens Street, Lancaster, Pennsylvania.







POST-WAR PLANS Ford, Bacon & Davis Engineers

DEVOE

Notice of Dividends

A quarterly dividend of 11/4% (\$1.25) per share on the outstanding 5% Cumulative Preferred Stock and a regular quarterly dividend of 25 cents per share on the Class A and Class B Common Stocks of the Company have been declared payable Sept. 1, 1943, to the respective stockholders of record at the close of business Aug. 20, 1943.

DEVOE & RAYNOLDS COMPANY, INC.

FINANCE

Wire Merger Due

Stockholders of Postal and Western Union are expected to approve consolidation plan at meeting next week.

In line with this country's inherent fear of monopolies, Congress years ago passed legislation specifically barring any Western Union-Postal Telegraph merger. Thus, while there has been much talk at times about the waste in maintaining two duplicating telegraph systems and the economic advantages of but one system under strict government supervision, it has never until now been possible to do anything about it.

• Hypothetical Competition—However, the very monopoly so feared by Congress has actually been developing—and very rapidly—in recent years. Postal Telegraph has always been small potatoes along side Western Union, which owns 208,321 miles of domestic pole lines, 1,904,963 miles of wire, 30,341 miles of ocean cable, and 18,677 public telegraph offices plus 13,500 agency offices. Postal actually has never been in a position to offer that giant any real competition.

Moreover, even the small part of the total domestic wire business Postal once did manage to acquire in "the good old days" has since slipped steadily out of its hands. Recently Western Union's share of all available traffic has grown to around 85%.

· Dependent on RFC-As a result, Postal has had to depend more and more for its revenues on fees received for handling domestic transmission of foreign messages for others. Such business, particularly with present war restrictions, obviously isn't enough to support the organization. Not even its drastic reorganization several years ago has proved of much help in its fight for survival. For some time now, to offset its large yearly deficits and actually remain in existence, Postal has been virtually dependent on the continuity of Reconstruction Finance Corp. loans (which added up to \$9,000,000 at last report) to carry on operations.

The Federal Communications Commission long has sensed the situation. Also, the commission became aware of the need to strengthen the position of the telegraph industry if the companies were to carry on successfully in the future. Real inroads have been made by the telephone, teletype, radio, air mail, etc. The FCC, therefore, recommended new legislation to Congress

which would permit the scratate gers of domestic telegraph compa and the international carriers of a and cable messages. This was at done, after much debate, early this (BW-Feb.27'43,p106), and Wes Union and Postal stockholders are a scheduled to vote Aug. 10 on a place consolidation.

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• Debts near \$11,000,000—Under plan, Western Union has agreed buy, by Oct. 10, 1943, all the as and business of Postal and to assume obligations, including RFC loans a certain pension liabilities. The hamount of net debt (current liabilities amount of net debt (surrent liabilities) and RFC debt less cash and receivable assumed is set at \$10,800,000.

Western Union's present \$100 stock, under the plan, would be changed par-for-par for new no-par d A noncumulative preference stock ping a \$2 dividend. The Postal proper would be acquired by issuance of 3 124 shares of a class B stock. T class B would share equally with A shares in the distribution of any d dends after payment of the A stod 2 requirement, would be exchan for Postal preferred on a par-forbasis. Each share of Postal com would get one-twentieth of a Wester Union B share. A year after its issuand the B stock could be converted to the A shares on a basis of five B for three • Approval Expected-The general in pression now is that the plan will h approved by the stockholders' vote-th the merger, in fact, is already in the h even though it must be approved late to become effective, by the FCC an various state regulatory bodies.

However, not every one is equal sanguine about the outlook for the consolidation. It is pointed out that Western Union has been slipping in the fid it ruled so long unchallenged. Despit the stimulation from war which has sen business activity to the highest level known, 1942 revenues of Westen Union fell 9% short of the 1929 level But this comparison was caused, at least in part, by lower rates. Number of messages handled last year actually ran 7% ahead of 1929.

business years, Western Union has been able, since 1935, to retire \$25,000,000 of debt, including all bank loans and funded debt maturities prior to 1951. It is expected also that Western Union will offset some of the competition of other types of communication by the ultimate purchase of A. T. & T.'s teletype division and by its mechanization program.

Western Union's chief burden in the past has been high wage costs as its pay

benefits, pensions, and social setax expenses took 63¢ out of dollar of revenues in 1942, 64¢ in and 61¢ in 1940. Average yearly have risen a third since 1935, he end is not yet in sight as a re-National War Labor Board award, ctive to last August, will likely raise al payrolls \$1,200,000 further.

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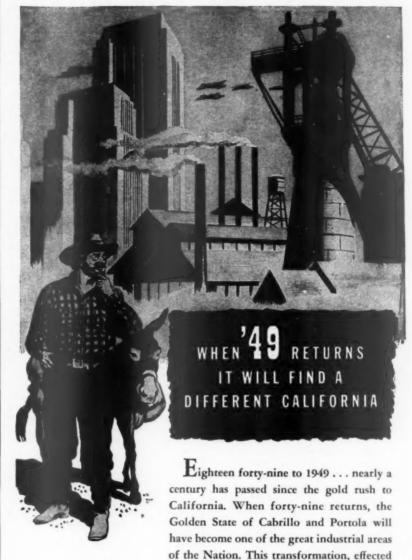
vision for Workers-The merger going to cut the wage bill much start; in fact, it is likely to freeze cost at present high levels for a This is because labor provisions e legislation granting the right to e stipulate that those employed by company prior to Mar. 1, 1941 he retained for four years and if since that date are entitled to an anged payroll status for a period the merger at least equal to the worked up to then.

fter a late start, Western Union's hanization program is moving along illy, with priorities secured by the pany overcoming war construction culties. How long this will take to plete has not been officially stated, guesses usually center around two Ultimate saving is put at around 000,000 annually. Elimination of y of the 22,000 duplicating offices means of the consolidation offers ortunities for substantial savings, as believed at least 4,000 can be closed. lecently, an FCC order provided that s on domestic telegrams for the ernment, from July 1 on, were to al 80% of the normal public rate inst 60% as before. This change, ever, is believed more than offset the wage increase and higher depreion charges adopted last September meet FCC requirements.

lollow Victory

Pennsylvania R.R. gets ICC proval on sale of affiliate's nds by negotiation, but case is to settle bidding fight.

The recent attempt of those two midstern advocates of competitive bidg-investment houses, Halsey, Stuart Co. and Otis & Co.-to force the nnsylvania Railroad System to use the ction block in refunding its Pennsyl-20,000 nia, Ohio & Detroit 4½% bonds with w 3½'s (BW-Jul.3'43,p102) has cul1950 inated in a victory for the road. The Union C finance division finally approved e financing contract with Kuhn, Loeb Co. by a two-to-one vote. However, to what has arisen out of the hear-ss, it was one of those victories that, the long run, may turn out to be a by sour triumph for the rail industry. Points in Favor—The commission did ecifically reject the contention that



largely in the past ten years and now accelerated by total war, makes California a major consumer market of 7,500,000 people and a vital industrial as well as agricultural producer.

Bank of America serves this modern California through branches in more than 300 cities and towns-through a branch banking system which affords an invaluable service and an "on-the-spot" representation to businessmen and bankers throughout the country.

Bank of America

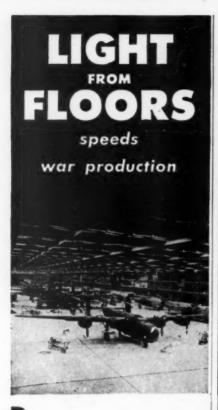
NATIONAL TRUST AND ASSOCIATION

MEMBER . . . FEDERAL RESERVE SYSTEM -- FEDERAL DEPOSIT INSURANCE CORPORATION

Complete Banking Facilities - Commercial - Savings - Trust - Safe Deposit Main offices in two reserve cities of California . . . San Francisco - Los Angeles Branches in more than 300 California cities and towns Total resources more than two and a half billion dollars



Blue and Gold BANK of AMERICA TRAVELERS CHEQUES are available through authorized banks and everywhere. Carry them when you travel.



DARK FLOORS waste light by absorbing it. White cement floors save light by reflecting it. The advantages of making giant reflectors of your factory floors are shown by installations at Boeing, Consolidated, Douglas and North American Aircraft plants. In the Consolidated plantat Fort Worth, tests by General Electric show that the white cement floor which adjoins a gray cement floor in the same plant reflects 61% more light to under side of wings and 20% more light to vertical work surfaces.

Light-reflecting floors made with Atlas White cement have many other advantages. They encourage cleanliness, are easy to maintain, reduce disturbing shadows, give workers better and more comfortable light, improve morale, increase production, and reduce accidents, errors and spoilage.

Send for new book, "Light From Floors." It tells the complete story of light-reflecting floors made with Atlas White cement. Write today. Universal Atlas Cement Company (United States Steel Corporation Subsidiary), Chrysler Building, New York City.



THE MARKETS

Since Mussolini, with the bases full and none out, was yanked from the pitcher's box and sent to the showers, investors seem to have pretty much lost their former avid desire to hold securities. Except for two widely separated and feeble technical rallies, prices have broken pretty sharply under the impact of such heavy and determined liquidation that the New York Stock Exchange experienced its biggest July since 1938.

gest July since 1938.

• Minimum of Selectivity—Losses registered, also, have completely wiped out the laborious gains of months past. The selling in stocks, moreover (unlike the situation in the bond market where liquidation has been pretty much confined to the so-called war issues), has remained quite indiscriminate. Still, on the whole, the war stocks have suffered the most, and the rails, where losses of 15% or more from recent highs are very common, have given a worse performance than the industrials.

Some had hoped, at first, that the decline would not assume the size it has, and that it would confine itself within limits which would warrant the present trend's being considered, technically speaking, only a secondary movement. This, however, has been far from true, as the pattern now definitely indicates to all but incorrigible bulls that the backbone of the recent 14-month advance has been broken. Also, most market students currently expect no real resistance to the present down-drift, except for occasional technical rallies, till the price averages have moved some points lower. • Tax on Speculation-After all, time has taught the experienced trader not to expect any vigorous rally to follow quickly a break of the size already seen. Also, a drastic readjustment almost always generates, within speculators and alike, a great desire to sit on the sideling for a time and assume that ober a realistic attitude which so rare y bree excessive optimism. Rumors, two, that special tax on speculative profit is been considered may have a dampering effect for a time.

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Thus far, the cash buying characters ing the recent bull market has made us necessary any great amount of many calls, despite some of the very sharbreaks seen. Also, margin buying by the trader in cats and dogs, who may that his low-priced favorites are again in buying range, will be hampered for some time ahead. This is because of the growing number of stocks that have slipped below the \$5 mark and that are convequently no longer cligible for margini operations.

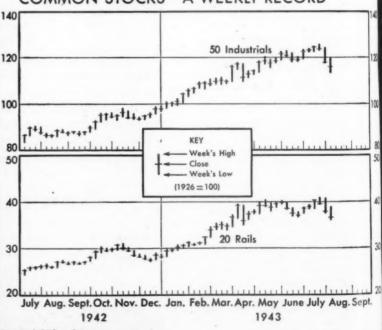
o London's Attitude—While the London market has also experienced some selling in the home rails, the British are showing no disposition to dispose of the holdings in the heavy industries.

Security Price Averages

Week k Ago	Month Ago	Yez Azı
		5.
117.9	123.1	86.7
37.9	38.9	26.4
50.5	50.5	30.4
116.5	116.8	1085
99.7	99.6	84.7
115.4	114.9	1042
112.9	113.4	110.5
	k Ago 117.9 37.9 50.5 116.5 99.7 115.4	k Ago Ago 117.9 123.1 7 37.9 38.9 5 50.5 50.5 6 116.5 116.8 6 99.7 99.6 6 115.4 114.9

Data: Standard & Poor's Corp. except for government bonds which are from the Federal Reserve Bank of New York.

COMMON STOCKS - A WEEKLY RECORD



Date: Standard & Poor's Corp.

new issue was one especially adapted competitive bidding. Also, it termed offer of the objectors to buy the nds at 102 (against Kuhn, Loeb's orig-l price of 100) as made "on the spur the moment and without adequate

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nsideration."
Other portions of the decision, hower, were not so favorable. The ICC dicated that it was not convinced that e Pennsylvania had received the best ice possible for the new issue or that could not have retired some of the old nds with cash on hand. Also, the C thought the spread between the ice of 100 received by the road and e offering price to the public (1013) as too great and ordered this reduced raising the sale price to 1001.

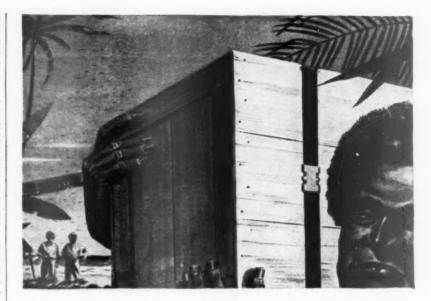
Mellon Pulls Out-The three commisoners who heard the case all objected, well, to the interlocking directorships etween the road and many of the institions handling the sale of the new onds. Evidence was introduced, for ample, to show that Richard Mellon, rector of the Pennsylvania, was also be owner of 50% of the stock of the fellon Securities Corp., which took yer \$2,000,000 worth of the bonds as member of both the underwriting and he selling groups. (Mellon Securities ithdrew from the underwriting.) Whether such cross-directorship repreented a violation of the "spirit and inent of . . . the Clayton Antitrust Act" as a question the commissioners said hey were not called upon to decide. evertheless, they did very definitely ive vent to their lack of sympathy.

Probably the most important sequel this fight to compel competitive biding on all rail issues (this is now the equirement in the case of utility securis) is the ICC's resulting decision to ok into all aspects of that situation. In s order establishing such an investigaon, the commission says it will seek to etermine just what classes of rail seurities competitive bidding might proply be applicable to, and what regulaons should be prescribed in connecon with such sales.

Nothing Is Settled-Certainly the Pennsy's victory in this case hasn't buried the competitive bidding ghost; istead the ghost seems to have received blood transfusion.

UTILITY MOVES TO COMPLY

North American Co. this week gave he Securities & Exchange Commission by plan (BW-Jul.31'43,p103) for comliance with the holding company law's leath sentence. The general details particularly the idea of setting up four cgional holding companies—held no irprises for those who follow the comy's affairs. Similarly, the formation fa firm to be known as the Liquidating O. also had been anticipated.
Stockholders would be given their



APPOINTMENT IN TULAGI

IT'S "BOUND TO GET THERE" WITH . . .

acme Steelstrap

HIS shipment had a date with U. S. Armed Forces in the far Pacific. It kept that appointment . . . because it was packed right and strapped right. Proper packing kept it free from damage all the way to destination.

In co-operation with Government services, carriers, and manufacturers, Acme engineers are helping to assure adequate protection for overland and overseas shipments of practically

every type of war product . . . packed in boxes, cartons, crates, bales, bundles or on skids. For carload ladings . . . Acme Unit Load Bands are used to make them "Bound to Get There."

Acme Steelstrap complies with all Federal Strapping Specifications. Applied with Acme strapping tools, Acme Steelstrap provides a faster, more economical way of moving vital shipments to the fighting fronts in all parts of the world.



If you are engaged in war production, Acme engineers will be glad to help you plan for the safe arrival of your products. Contact the Acme office nearest you.

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THE B. F. GOODRICH CO	WILLSON PRODUCTS, INC
GRAYBAR ELECTRIC CO	THE J. G. WILSON CORP

proportionate slices of securities of the new regional holding companys and certain other North American investments (valued at \$30.80 a share: they would be required, at the same time, to put up cash to pay off indebtedness and preferred stock of the parent company (requiring an estimated \$11.67).

The four new regional companies would center on the North American properties grouped about St. Louis, Milwaukee, Cleveland, and Washington,

D. C.

Use the Teapot

New crop of investors has swamped safe-deposit facilities. Banks now offer special services; war bonds vex reserve banks.

Time was when the owners of securities had no trouble finding enough safe-deposit boxes in which to store them. However, with the new crop of war bond holders alone now numbering way up in the millions and growing steadily, and priorities preventing the manufacture of additional safe-keeping facilities, that picture of late has changed considerably.

• There's Space in Gotham—Not so much in New York, where supply still exceeds demand except in the case of some residential and suburban branch banks, but in many other sections of the country this problem has been growing increasingly acute. From Canada, too, the story is the same.

Some Cincinnati banks, for example, currently report long waiting lists of applicants for boxes. In many Chicago banks, too, occupancy of safe-deposit facilities, already at record levels, is still growing rapidly with the saturation point in sight. These are not just isolated instances.

• Special Services—Many banks are cashing in on the insatiable demand for boxes by offering "safe-keeping" accounts especially designed for the new war bond buyers. One such plan is for banks to offer to keep customers' war bonds up to a fixed amount for a \$2.50 annual charge. They permit monthly deposits of new purchases.

When the Treasury first began to sell baby bonds, it told buyers the twelve Federal Reserve Banks would provide them with free safe-keeping facilities, probably to forestall trouble arising out of demands for new bonds to replace those lost by inexperienced holders. Over 200,000 have already availed themselves of the privilege.

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• Bigger Job in Sight—What really worries the Federal Reserve, however, is not its present safe-keeping accounts. It is the millions of potential accounts it may some day have to handle.

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By the end of this year more than a illion men will have been discharged on the Army since the beginning of draft (BW-Jun.26'43,p98). It might thought that the restoration of these en to civilian life would provide a sort dress rehearsal for the general debilization that is to come.

Obviously it cannot offer a precise attern for the big job. The individuals w concerned may not be typical. The ry fact of their discharge at this time gests that their cases may not be on fours with those of the millions who ill see the war through. Yet Selective ervice can learn something of what ust be done later on a vast scale. But doubt whether it will learn much conming one vital factor of demobilizaon. That is the mental attitude of the eturning service men,

With all due allowance for individual riations, I wonder what military service ill do to the average young man. Will make him more self-reliant or more pendent on authority? Will military cipline carry over as individual selfscipline or will it be overwhelmed by wave of organized mob rule such as w dominates the political scene? Will he economic security of military life reed a desire for social security in all ts forms or will it, by reaction, revive a caming for individual social and ecomic freedom? In short, what kind of nvironment will the returning serviceen really want?

Many words are spent on telling us that those men are supposed to be fightng for. Witness the highly propagandized "Four Freedoms," so much more ignificant in what they ignore than in what they cover, the brutally forthright drive of the professional unionists for olitical power, the naive idealism of ose who project a new world as though the planet had been wiped clean to receive their designs, the smug egotism of those who resist all change that may not serve their very special interests. But the grotesque diversity of these and ther conceptions of "what the boys are fighting for" suggests that their pro-moters actually haven't the foggiest no-tion of what "the boys" themselves think about it.

Our postwar task would indeed be much simpler if we could determine whether these men are fighting for the right to rebuild their own lives in a competitive individualistic society or for the privilege of sharing in a collectivist society designed to guarantee them minimum living standards free from individual risk and responsibility. Will they be more interested in oppor-

tunity for the individual to go as far as he is willing and able or in security for the mass of people against the hazards of competitive living?

In posing that question I lay myself open to the charge of dealing in "black or white" alternatives. That is not my intention. I know that many shades of gray lie between the extremes of untrammeled individual opportunity and guaranteed mass security. But those who are so articulate about "what we are fighting for" do not deal in the grays; their stuff is all black or white.

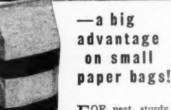
In this connection we shall do well to remember that many service-men never have had to think very much about what individual opportunity means to them. Many of them never have held jobs. Others have suffered from unemployment, have seen the savings of their parents wiped out, or have otherwise looked upon the seamy side of our economic system. They have lived most of their lives through a period of extravagant propaganda for "security" and of cynical scorn for "opportunity. Through their years of awareness, they have been treated to a dilute bath of the same solution that, in concentrated form, has engulfed their German, Italian, and Russian contemporaries. So those of us who believe in the ability of the "opportunity system" to cope with postwar needs may be deluding ourselves when we take for granted the sympathetic understanding of the service-men.

But of one thing we can be sure. The men who will come back after having won a war will be a mighty important and vocal minority in shaping our future. And I suspect that we can safely cut through all the self-seeking hokum as to "what the boys are fighting for" and assume that they are fighting simply to preserve a country in which they still will enjoy the right to decide from time to time just what they do want. We at home and they out there can agree, I hope, that that in itself is worth fighting

And I am inclined to think that the attitude of the returning service-men will be determined less by the propaganda of their self-appointed spokesmen than by what they find when they get home. If those of us who believe in "opportunity" can manage to provide opportunities, the boys will decide they have been fighting for opportunity. But if we fail in that, it is fairly certain that they will decide they have been fighting for

The most effective propaganda for the "opportunity system" will be our success in keeping opportunity open against the day of peace.





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WHAT DO YOU MEAN BY "RECONVERSION"?

Does Italy mark a turning point in the trend from butter to guns which has run with accelerating force for the three years since the start of national defense?

This is merely the current form of a question which has been asked with increasing frequency since the tide in the war was turned months ago-how soon now the reconversion? Finding the answer-or, rather, weighing the factors that give the answer-has become a paramount problem, not only for business planning but also for political-military-economic high policy.

For clearly, this is more than a question of when the war will end. Implicit in the very asking is an assumption that possibly we can reconvert before the war ends. That is what must be investigated-for the period before Germany is licked as well as for after, when we shall

have only Japan to fight.

particular needs change.

• First, what is reconversion? The recent changeover of locomotive builders from tanks to railroad equipment for Army use abroad is reconversion for the companies involved. But it is not reconversion insofar as the production is still for war. All that has happened is that the military's need for tanks has, at this point, become less than its need for the companies' normal output.

There are other closely allied types of "reconversion" that are more complex conceptually and more difficult to effect. One would involve a transfer of resources from the "hard goods" of fighting to the "soft goods" of rehabilitation (BW-Jun.26'43,p116). But the important thing is that through all such "reconversions" the war effort remains the ruling end to economic activity; only

For clarity, we may contrast with these "reconversions" the kind that would reflect a deliberate decision to diminish the war effort before the end of the war. It is this possibility which must be examined. In the baldest instance, it would encompass the release of the automotive industry from the building of planes to the mass produc-

tion of passenger cars for pleasure use.

• Here would be the logic behind such a reconversion: At some point, the demands of the military become satiated; they have not only "enough" to do their job, but also "too much," and even "too much too much." For, initially, the military request a basic force of some definite size which they require to win; the building of such a force absorbs the undivided effort of the entire production machine for a considerable time. But once the force is built—once the pipelines of military supply are filled demands become confined to replacement needs. And battle experience shows that attrition, destruction, and obsolescence of basic equipment run at a rate much lower than our capacity to produce.

That is the argument. In considering it, we may pass by the objection that no other nation in this war has ever reached a point where war demands were satiate Certainly no nation could so long as it was losing, as the Axis in its heyday had to prepare against the pos bility of our entry. Only we can so much as speculate of such a reconversion, because only we have so huge armament capacity.

• But in the last analysis, a decision to reconvert must rest upon a weighing of the probable costs of alternative On the one hand, premature reconversion might cost victory itself; or, at least, time and lives which con otherwise be saved. On the other hand, if we delay recon version beyond the point necessary, we shall be wasting tremendous economic efforts that could be put to bette use; it is precisely for this reason that we would not mo bilize 10,000,000 men or spend 100 billion dollars a year were we involved in a war with, say, Afghanistan alone

The costs of defeat being so overwhelming compared to the waste of an over-long, over-large war effort, no on could regard the alternatives for action as even balance until we could estimate our chances of losing as perhan 0.0001%, and the chances of our wasting economic effort as perhaps 99.9999%. And even once victory become 100% certain, we must take account of the possibility of

losing time or lives.

Clearly-just as Pearl Harbor left no room for choice -the alternatives must constantly be measured against the facts of war. For instance, should the strength of Nazi morale and of German military defense surprise us and hold us off effectively throughout 1944, the presump tion would have to be accepted that the military do not have "enough." Contrariwise, should the results expected from our present strategy follow along on or ahead of schedule, they would increasingly support the argument for reconversion. Similarly, what we "need" to defeat Japan alone as quickly and as cheaply as possible must depend on the nature of the operation which the military find it desirable to conduct and on the success of such an operation. If it is proved to be a sea-air war for the most part, the public will not long support the accumulation of giant stocks of equipment for ground warfare which no one more than pretends might be required.

• Business men, like others, will constantly tot up and revise the balance sheet of costs and probabilities involved in reconversion. But for their planning, it will be wise to remember that ultimately it is the public-and the public's representatives who make high policy-that must decide. It is they who will figure how the odds stack up against the costs-when or whether the risk on sons', husbands', and brothers' lives has been cut so low as to warrant the return in part to more normal patterns and standards of living. Reconversion will be the people's choice.

The Editors of Business Week

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